UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1962-1963

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OFFICERS OF THE COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD COHEN, P.C., LL.D.

VICE-CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD STRANG,
G.C.B., G.C.M.G., M.B.E., B.A., LL.D.

TREASURER

SIR BERNARD WALEY-COHEN, BT, LL.D.

PROVOST

SIR IFOR EVANS, D.LIT.

SECRETARY

E. A. L. GUETERBOCK, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

At the end of the session Lord Cohen resigned the office of Chairman of the College Committee which he had held continuously since 1953. Both the Professorial Board and the College Committee passed resolutions expressing their appreciation of his outstanding services to the College. The Professorial Board at their meeting on 11 June 1963 resolved

That the appreciation and gratitude of the Professorial Board for the distinguished service given by Lord Cohen during his tenure of office as Chairman of the College Committee be recorded. The Board was particularly sensible of the high respect in which Lord Cohen had held academic purposes, the close attention he had given to the management of the affairs of the College, and the wide range of his interest in the general life of the College as an academic society.

The College Committee at their meeting on 2 July 1963 resolved

That the College Committee be associated with the Professorial Board in this tribute to Lord Cohen and record the sense which they entertained of his advice and guidance in their proceedings over a long period.

The period of Lord Cohen's chairmanship began in the most difficult phase of post-war reconstruction when the College was still faced with the severe problems that resulted from the heavy war damage it had sustained. His years in office marked a notable period of development, both in increased facilities for the undergraduate body, particularly the provision of a new refectory, and in the reconstruction of a number of the academic departments. Amongst these developments was the first stage of the new Engineering Building, for which funds were provided by industry, and in the whole planning of which Lord Cohen took the keenest interest. It was a decade when the academic role of the College as a leading centre for advanced studies and research was consolidated. Lord Cohen himself led in the persistent and patient exploration of means of relieving the spatial and financial limitations which impeded the College's natural growth. Lord Cohen still retains a number of contacts with the College, not only as Honorary Fellow, but as

Chairman of the Bentham Committee and in a number of other ways. During his years in office there was no major problem to which Lord Cohen did not give personal attention. His mastery of detail, his rapidity of decision and his constructive imagination were of major assistance to the College on a number of occasions. He gained the respect and affection of the academic staff through his understanding of their problems and for the importance that he attached to the research that the College was achieving. At the same time, the undergraduates regarded him, rightly, as their friend.

There have been two other retirements from the governing committees of the College during the session. Mr E. K. Martin retired from the College Committee, on which he had served as a member since 1949, and from various other committees. He gave notable service to the Student Health Association Committee, of which he was, for a time, Chairman. An old member of the College and of the Medical School, he was devoted to all the aspects of the College's life and his retirement from the College Committee will leave a serious gap. Mr L. H. Macklin has retired from the chairmanship of the Managing Committee, an office which he has held since March 1955, and the College is much indebted to him for the kindly vigilance which he has brought to the diversity of problems with which the Managing Committee is engaged.

The College Committee, at the beginning of the session 1963–64, nominated as its Chairman, Lord Strang, who had already served as Vice-Chairman. It may be permitted for one of those responsible for this section of the report to say with what great pleasure the College welcomed one of its own most distinguished members into the office of Chairman. To the office of Vice-Chairman, the College Committee elected Mr F. J. Stephens.

While this report deals with the session 1962–63, it is difficult not to anticipate some matters in the comments, for this section of the report is being written soon after the publication of the Robbins Report. The Robbins Report stated that four of the Colleges of the University had made fundamental criticisms of the existing structure. University College was among those four. Lord Robbins's Committee comments:

Since the present constitution was framed in 1926, the principal colleges have grown so that both in size and repute they are equivalent to independent universities, and a further large scale review is considered necessary. In particular, two criticisms have been made which raise major constitutional issues: the colleges have no independent access to the

University Grants Committee or the Committee of Vice-Chancellors and Principals.

The Committee fairly comments that:

These questions were considered by the Court and Senate of the University, which resolved, 'That the Committee on Higher Education be informed that the University will consider the foregoing comments by Schools on the government of the University and the relationship between Schools and the central University Body after the Committee has reported and the extent to which its recommendations are likely to be implemented is known'.

It is obviously premature to discuss these matters here in this report. At the same time, it may be indicated that this is one of the major issues that will engage our attention during the next few sessions.

The Provost, in his address to the Assembly of Faculties at the end of the session under review, did comment on our intricate relationship with the University of London and a few of the reforms which were both urgent and desirable. 'It is difficult to justify', he said, 'that the seven new Universities should all be represented on the Committee of Vice-Chancellors and Principals and have direct access to the University Grants Committee, when this University College of London, with nearly four thousand members, has no direct representation at all. It could be argued', he added, 'that the time has come when we should be allowed to make appointments to our Chairs and Readerships without the machinery of a University Board of Advisors and that we, as a most progressive College, might wish the right to define our own programmes of work and our own academic developments'.

To those who have the practical problem of administering institutes of higher learning in this country, Government financial policy has presented an inexplicable and frustrating complexion. In the Report for 1961–62 we sta tedthat in May 1962 through the Court of the University we had received the announcements of the recurrent grants for the forthcoming quinquennium. We added that so much comment had been made in the national press on their inadequacy that the issue need not be elaborated in our own Report. It was known that the University Grants Committee was itself profoundly dissatisfied. Why from a national point of view it was necessary so to discourage and disrupt research work, valuable in the national interest, still remained unexplained. We were promised a review by the Treasury in two years' time. In June 1963 we heard

that the Treasury had decided to bring forward by one year the reconsideration of Universities' financial needs. As a result the College received in 1963–64 an additional recurrent grant of £94,000 and this will rise by £7,000 per annum during the last three years to 1966–67. This change of Government policy has meant that academically we are in a much happier position in 1963–64 than we were in 1962–63. We have been able to give financial consent to all the major urgent outstanding academic needs which can now be met from our current financial resources.

The income of the College for 1962–63 amounted to £2,428,821, an increase of £336,339 over 1961–62, and at first sight this might indicate a valuable increase, but in fact the whole of this sum was earmarked in one way or another. £110,000 was due to an increase in the block grant in the first year of the new quinquennium which was wholly absorbed by additional routine costs. £77,400 had been earmarked for a revision of academic salaries, £71,500 for general rates, and £55,900 for research projects formerly financed by Research Councils. Fees charged to students also increased by £32,000 as the result of a general increase in tuition fees.

Expenditure increased by £337,737 over 1961–62 and amounted in all to £2,428,137 exclusive of researches borne by outside grants which are referred to separately. All these adjustments did not leave any room for increase in academic posts or in equipment grants, and there was therefore a sense of restraint as far as all academic policies were concerned until the Treasury letter of June 1963, to which reference has already been made, saying that an increased grant would be available for the session 1963–64.

A general scheme of revision of academic salaries came into effect on 1 April 1963 which was the forerunner of an investigation into the general level of academic salaries now being made by the National Incomes Commission.

Research activities sponsored by grants from public bodies were maintained in volume, as evidenced by expenditure of £480,703 as compared with £408,224 in the previous year.

A capital expenditure of £817,630 in 1962–63 expresses the progress made with the construction, adaptation, and equipping of new accommodation. This sum was made up of capital grants from the Government through the Court of the University, apart from receipts from War Damage contributions, donations, and appeals amounting to £151,000. Among the buildings under construction, the most important development has been the virtual completion of the Biological Sciences block on the Gower Street frontage. The last

stage was the construction of the fine new Department of Botany which will be ready for occupation at the beginning of the session 1963–64. The construction of Stage III of the new Engineering Building is well advanced and should be ready for occupation in April 1964.

The construction of an animal house on the Department of Pharmacology was completed early in 1963. The cost was met by a donation from the Wellcome Trust. Plans were also completed for additional laboratory space for the Department of Anatomy and Embryology over the South Gate entrance to Gower Street, and this again was financed by a donation from the Wellcome Trust.

Work commenced late in 1962 on the Hall of Residence for 127 men students, with frontages on Fitzroy Street and Maple Street. This is the Hall of Residence financed by the anonymous donor and it is expected that it will be ready for occupation in August 1964.

The erection of the new building in Store Street which will house the National Central Library and the Library Association started in 1962. When it is completed their present building within the Rectangle will be transferred to the College.

Reference has been made in earlier reports to the fact that provision of student accommodation remains one of our major concerns and that the degree of our success in solving this problem will affect the whole of our contribution to University education in London. On a long-term basis a major development has been the purchase by the College of an area of freehold property of about three-and-a-half acres fronting Whitcher Place and Rochester Mews and situated near the Camden Road in a position that is easily accessible to the College by public transport. The College is greatly indebted to Sir Harold Samuel for a donation of £250,000 towards the purchase of this site, to which the anonymous donor, who had given the College over £270,000 for the Hall of Residence in Fitzroy Street, added a further £20,000. The balance of the purchase price the College has at present found from its own resources. The owners of this site will have to retain it for their own purposes for a period of a year or more, and at present planning permission is being sought for a hall of residence on the site. If present plans are approved, it will be possible to house over 700 students on this convenient site.

Statistics of the student population are set out in Appendices VI and VII. Once again the College has used all possible means as far as its limited accommodation permits to offer an increased number of places to full-time first degree and postgraduate students. The increase over 1961–62 in full-time students has been 110 or 3·5 per

cent. This increase has once again led to a reduction in the number of part-time students registered in the College and, as in the previous session, a further reduction in the number of part-time overseas students in attendance. It is encouraging, however, to record that the College has attracted an increased number of full-time overseas students. The total in the session has risen to 618, representing an increase of nearly 6 per cent over the previous session.

The success of the policy of developing the College as a centre for postgraduate studies is shown by the fact that the postgraduate population has now risen to 1,131 and the number of full-time postgraduates has risen by 50 since last session, representing an increase of 6·7 per cent.

As the College has stated over recent years and re-emphasised in its quinquennial report, a considerable increase in the number of full-time students could be introduced into many Departments if further accommodation outside the Rectangle could be put at the College's disposal.

The Friends of University College have thought it wise again this year to accumulate funds to meet the cost of such larger projects as may emerge on completion of the new halls of residence and the Central Collegiate Building. The extent of the financial aid given during the session 1962–63 has therefore been restricted. A grant of up to £125 has been put aside for television equipment for the new halls of residence. Through a grant by the Friends the Union was able to purchase a badge of office for its President. A grant of £100 to the Dramatic Society enabled it to have a float to facilitate the production of a new magazine entitled *Prompt* which features news items and articles concerning drama and the theatre. Other projects financed include a grant of £250 towards the production of a catalogue of the large collection of Flaxman statues, casts, and drawings, with an account of the finished works as far as identification is possible and with some illustrations. A further grant of £100 was given towards the cost of the Reception for Former Students in February 1963. The Friends have also undertaken to give £100 for picture frames so as to enable a selection of prints to be hung on the walls of the south wing of the College; they are also to provide the £105 needed to cover artist's fees for a design of a College insignia.

The research projects conducted by the various Departments are so varied, and many of them are on such a long-term basis, that it has been decided that a summary of them cannot be usefully introduced into an Annual Report. It has therefore been agreed that the most effective way of presenting the work of the Departments would

be by a list of publications that have been completed in the session, and this is given on pages 20 to 57. This is an impressive record, and forms its own comment on the diversity and distinction of the research work that has been achieved, and the College would wish on this occasion to express its thanks to the Research Councils, the Foundations, and other grant-giving bodies, for the financial assistance that they have given to make much of this research possible.

The 1963 Assembly of Faculties was held in the Large Hall at Friends' House on 20 June. The Special Visitor, Sir John Neale, attracted a large and appreciative audience.

STRANG, *Chairman*

IFOR EVANS, *Provost*

SUPPLEMENT

HONOURS AND DISTINCTIONS

The 1963 New Year Honours List included a number of awards to former students of the College. The Order of K.C.M.G. was conferred on D. M. H. Riches, Ambassador in Leopoldville, and J. C. B. Richmond, Ambassador in Kuwait; Knighthoods on E. E. I. Clarke, Trinidad Ambassador to the United States, Dr J. W. Cook, Vice-Chancellor of the University of Exeter, C. G. X. Henriques, Chief Justice in the Windward and Leeward Islands, and J. A. Luckhoo, Chief Justice in British Guiana; the Order of C.B. on Major-General A. N. T. Meneces ; the M.V.O. on R. F. Tatchell, architect; and the C.B.E. on D. A. R. Alexander, Solicitor-General in Western Nigeria, Dr L. G. Norman, Chief Medical Officer of London Transport, and S. F. Owen, Acting Director of Public Works in the Federation of Malaya.

The Queen's Birthday Honours included the conferment of the Order of C.B.E. on K. A. Blacker, Commissioner for Lands Legislation in the Federation of Malaya, F. H. Carr, Deputy Chief Housing and Planning Inspector in the Ministry of Housing and Local Government, and on Dr I. W. Wark, for services to Science, all three being former students of the College.

Professor A. H. Smith was appointed a Chevalier, first class, of the Royal Danish Order of the Dannebrog.

Among former students who obtained important Government appointments were Sir Derek Riches who was appointed Ambassador

to the Lebanon, S. J. Ntiro who came to London as High Commissioner for Tanganyika, and D. Abu-Ghazaleh, who became Minister of Communications in Jordan.

Lord Robbins, Honorary Fellow of the College, was re-elected President of the British Academy, John Aldridge, member of staff in the Slade School and M. A. Sisson, former student of the Bartlett School of Architecture, were elected as Royal Academicians. H. M. Colvin, former student and member of staff of the History Department, was elected a Fellow of the British Academy. Professor D. Lewis became a member of the Council of the Royal Society; Professor E. H. S. Burhop and Dr L. Rotherham, Fellow of the College, were elected to Fellowships of the Royal Society. Mr L. H. Macklin was elected a Fellow of the Royal College of Music.

A number of past and present members of staff were honoured by election to foreign academies: Professor A. J. Ayer as an honorary member of the American Academy of Arts and Sciences, Professor Ernest Baldwin as a Fellow of the New York Academy of Sciences, Dr S. E. Dicker as a member of the same Academy, Professor R. A. Humphreys as a corresponding member of the Academia Nacional de la Historia of Venezuela, and Professor A. H. Smith as a corresponding member of the Royal Swedish Academy of Letters. Professor Smith was also elected an honorary life member of the Viking Society for Northern Research.

Among other past and present members of the College who obtained interesting appointments were Sir Ifor Evans, who was appointed Chairman of the Cassel Trust and as a Trustee of the British Museum; Dr Joan Evans, Professor A. V. Hill, and W. T. Monnington, also as Trustees of the British Museum; Professor D. B. Fry as President of the Permanent International Council for Phonetic Sciences; Dr L. G. Goodwin as the first director of the Nuffield Institute of Comparative Medicine; Professor Sir William Holford as Chairman of the National Joint Consultative Committee of Architects, Quantity Surveyors and Builders for 1962–63; Professor R. A. Humphreys as a member of the Mixed Commission set up in London under the Anglo-Argentine Cultural Convention of 1961; Professor D. Lloyd as a member of the Law Reform Committee and Sir Richard Turnbull as Chairman of the Central Land Board to be set up in Kenya. Professor A. V. Hill was also appointed President of the Society for the Protection of Science and Learning.

Honorary Degrees and other awards were conferred on past and present members of the College as follows: the LL.D. of the University of London on the Right Hon. Lord Cohen, the D.Sc. of the

University of Exeter on Professor A. V. Hill, the D.Sc. of the University of Oxford on Professor Sir Austin Bradford Hill, the D.Sc. of the University of Birmingham on Professor W. H. Pearsall, and the LL.D. of the same University on Professor T. F. T. Plucknett, the Litt.D. of the University of Sheffield on Professor A. H. Smith, and the D.Sc. of the University of Sussex on Professor Sir Solly Zuckerman.

The Colwyn Medal of the Institution of the Rubber Industry was awarded to Dr L. C. Bateman, the Telford Gold Medal of the Institution of Civil Engineers to Professor A. H. Chilver, the joint award of the Nobel Prize for Medicine for 1962 to Dr F. H. C. Crick, who also received the Gairdner award of merit for outstanding medical research, the Gold Medal of the Technical Association of the Pulp and Paper Industry of U.S.A. to Professor J. d'Argaville Clark, the Bicentenary Medal for 1962 of the Royal Society of Arts to Robin Darwin, the Victoria Medal of the Royal Geographical Society to Professor H. C. Darby, the Colyer Gold Medal of the Royal College of Surgeons to Sir Wilfrid Fish, the Charles Vernon Boys Prize of the Institute of Physics to Dr K. D. Froome, the Royal Gold Medal for Architecture for 1963 to Professor Sir William Holford, the Sir Israel Gollancz Prize of the British Academy to Professor G. J. Kane, the Dexter Prize for 1963 of the American Chemical Society to Professor D. McKie, the Prestwich Gold Medal of the Geological Society of London to Dr K. P. Oakley, and the Linnean Gold Medal of the Linnean Society to Professor W. H. Pearsall.

APPOINTMENTS

Within the College, Professor M. Abercrombie, formerly Professor of Embryology, succeeded Professor P. B. Medawar at the beginning of the session as Jodrell Professor of Zoology and Comparative Anatomy and Head of the Department of Zoology; and, on the death of Professor E. D. Hughes, Professor R. S. Nyholm became Head of the Department of Chemistry. Titles were conferred by the University of London on members of the staff in the College as follows: Professor of Physics on Dr R. L. F. Boyd, Professor of English on Arthur Brown, Professor of Probability and Statistics on Dr Florence N. David, Professor of Dutch History and Institutions on Dr E. H. Kossmann, and Professor of International Law on Dr G. Schwarzenberger. The following were appointed to established Readerships: Dr W. Schwarz to the Readership in German and Dr M. A. Screech to the Readership in French. The

title of Reader was conferred by the University on Dr A. Armitage (History and Philosophy of Science), B. B. Boycott (Zoology), Dr B. Cheng (International Law), Dr M. Mary Douglas (Social Anthropology), J. H. Kells (Greek and Latin), Dr R. Miledi (Biophysics), Dr R. Niedergerke (Biophysics), S. Prevezer (English Law), Dr W. A. Smeaton (History and Philosophy of Science), Dr C. Smith (French), Dr Hannah Steinberg (Psychopharmacology), Dr S. G. Sturmey (Political Economy), and Dr J. S. Wilkie (History and Philosophy of Science). In April 1963 Dr M. A. K. Halliday, formerly Reader in Linguistics in the University of Edinburgh, became the first full-time Director of the Communication Research Centre. At the beginning of the session Professor G. C. Allen was appointed Dean of the Faculty of Arts, and, in the Faculty of Engineering, Professor M. B. Donald became Dean and Professor R. E. D. Bishop, Vice-Dean.

A number of members of the academic staff and former staff and students of the College obtained academic appointments outside the College.

Within the University of London, Dr E. M. Crook was appointed to a Chair of Biochemistry at St Bartholomew's Hospital Medical College, and Dr K. Wilson to the Chair of Botany at Royal Holloway College; the title of Professor of Computing Science was conferred on Dr R. A. Buckingham, Director of the University of London Computer Unit, and the title of Professor of Political Science with special reference to Russian Studies on L. B. Schapiro of the London School of Economics. Mr E. H. Andrews was appointed to the Readership in Science and Materials at Queen Mary College, and Dr D. M. Maurice to the Readership in Physiology tenable at the Institute of Ophthalmology. The title of Reader in Chemical Pathology at University College Hospital Medical School was conferred on Dr K. R. Rees and the title of Reader in German on Dr P. B. Salmon in respect of his post at Royal Holloway College.

In other Universities, Dr R. Barer was appointed to the Arthur Jackson Chair of Human Biology and Anatomy in the University of Sheffield, Dr B. H. Bransden to the Chair of Theoretical Physics in the University of Durham (Durham Colleges), Dr C. A. Bunton to a Chair of Chemistry in the University of California, Santa Barbara, Dr T. M. Dunn to a Chair of Chemistry in the University of Michigan, Dr R. J. Fitzpatrick to the Chair of Veterinary Clinical Studies in the University of Liverpool, Dr N. L. Johnson to a professorship of Statistics in the University of North Carolina, Dr B. P. Marmion to the Foundation Chair of Microbiology in

Monash University, Melbourne, Dr J. F. M. Middleton to a professorship of Anthropology in the North Western University, Evanston, U.S.A., Claude M. Rogers to the Chair of Fine Art in the University of Reading, Dr G. D. Sims to the professorship of Electronics in the University of Southampton, and D. L. Turner to a professorship of English in the University of Ankara.

RETIREMENTS

The retirement of two senior members of the non-professorial staff and one member of the Library staff calls for special mention.

The Reverend Dr A. J. Arkell, Reader in Egyptian Archaeology since 1953, came to the Department in 1948, as a Lecturer and as Curator of the Flinders Petrie Collection, after many years in the Sudan, firstly in the Political Service and finally as Commissioner for Archaeology and Anthropology. At the time of Dr Arkell's appointment to the College, the Petrie Collection was still only beginning to emerge from its wartime storage, and the College owes him a considerable debt of gratitude for his unceasing labours of the last few years, as a result of which this famous collection has been not only unpacked, but to a large extent placed on exhibition, for the benefit of students, visiting archaeologists, and the general public. Dr Arkell has now retired from his work in the College to enter a new field of activity; for having been ordained in 1960, he has just taken up duty as Vicar of Cuddington, near Aylesbury.

The retirement of R. C. White-Cooper, Tutor to Architecture students at the Bartlett School of Architecture, ends an association with University College extending over a period of nearly fifty years. Mr White-Cooper enrolled as a student of Architecture in 1914, became a member of staff in 1931 and was appointed Tutor in 1952. Numerous students at the Bartlett School have cause to remember his generous and friendly help during his period as Tutor. In recent years he acted as architect for the College in a number of projects and was responsible for the Tea Pavilion at the Union Athletic Ground, Shenley. He has left a permanent reminder of his time at College with his new Students' Refectory completed in December 1960, which has had an important impact on student life, and the remodelling of the Staff Refectory in 1961.

Miss Joyce Pearson had completed forty-one years as a member of the Library staff when she retired at the end of the session. She had won the regard of countless readers in the Library by her friendliness, her helpfulness, and her knowledge of the Library bookstack. Since

the restoration of the Library in 1951, Miss Pearson's many responsibilities had included supervision of the Donaldson Library and the Library of the Folklore Society, and she had taken an active and useful part in College affairs, serving at various times on the Committee of the Women Staff Common Room, the Refectory Committee, and the Committee of the Administrative and Library Staffs Association, of which for two years she acted as Chairman.

RESIGNATIONS

Among the resignations from the academic staff recorded in Appendix IV is that of Professor Stuart Hampshire, Grote Professor of the Philosophy of Mind and Logic and Head of the Philosophy Department since January 1960, who resigned on his appointment to a Chair of Philosophy at Princeton University. The Philosophy Department has lost a remarkable lecturer and teacher, who had attracted many students to his own interests and ways of thinking.

Professor A. H. Smith, who remains Quain Professor of English Language and Literature, has resigned his appointment as Director of Scandinavian Studies. During the sixteen years he had been Director, the activities of this Department of Scandinavian Studies had been transformed under his guidance from studies of a peripheral character, undertaken in the main by occasional students, to a genuine academic activity in which the principal teaching was concentrated on first degree and postgraduate students; and all members of the staff were in established grades. Professor Smith had not only secured proper academic status for the Department within the College, but had established and maintained contact with scholars in Scandinavia and representatives of the Scandinavian countries in London which had been of the greatest benefit to the Department.

OBITUARY

We record with deep regret the death during the year of a number of past and present members of the College.

Within a few days of the opening of the session, the College received news of the death of Lord Normand, who joined the College Committee and was elected as its Chairman in 1949, and continued in that office until his retirement in 1953. At this time of reconstruction, not only of the buildings but also of the academic work of the College after the damage and disruption of the War, his judgment and wisdom in practical affairs, his deep interest in scholarship and learning, and his sympathetic understanding of the delicate issues

and processes of academic government, enabled him to bring to many irksome problems a calm and unobtrusive guidance. Lord Normand became an Honorary Fellow of the College in 1952, and thus maintained until his death a close association with the College and an interest in all its affairs.

Among the Fellows of the College who died during 1962–63 was Professor E. D. Hughes, Professor of Chemistry since 1948 and Head of the Chemistry Department since 1961. Professor Hughes came to the Department in 1930 as a post-doctoral Fellow. A few years later he became Ramsay Memorial Fellow and then successively assistant lecturer and lecturer. This period marked the beginning of the long scientific collaboration which, continuing as it has until his death, is almost without parallel in the history of English science, and inextricably links the names of Hughes and Ingold as the foremost contributors to a change in approach to organic chemistry, which now is manifest both in the terminology and teaching of the subject, and at the forefront of progress in the field. From 1939 he was one of a very small staff maintaining the Department of Chemistry of the College, in its evacuation to Aberystwyth and Bangor. In 1943 he was appointed to the Chair of Chemistry in the University College of North Wales, where he continued to participate in work of the Chemistry Department of University College London, to which he returned as professor in 1948. He was elected to fellowship of the Royal Society in 1949. Professor Hughes made a valuable contribution to University affairs, particularly through his Chairmanship from 1955 to 1960 of the Board of Studies in Chemistry, and he performed an extremely important task first as Honorary Secretary, and then as Chairman, of the Advisory Council of the Ramsay Memorial Fellowships Trust. He was Dean of the College Faculty of Science from 1958 to 1961, and played a full part in the life of the College with the deep sense of responsibility which was characteristic of him. He was a man of outstanding humanity, with a great sense of loyalty, and a profound devotion to the Chemistry Department where so much of his work was done.

The other Fellows whose death occurred during the year were Sir Irvine Masson, formerly Vice-Chancellor of the University of Sheffield, who came to the Chemistry Department as a research student in 1911, was a member of its staff from 1912 to 1924, and Reader in Organic Chemistry from 1920 to 1924; Professor Dame Lillian M. Penson, Professor Emeritus of Modern History of Bedford College London, who was influential for many years in University affairs, making an important contribution to the develop-

ment of higher education in the undeveloped parts of the Commonwealth and had the distinction of being the first woman Vice-Chancellor of the University of London and, indeed, of any University in the Commonwealth; and Professor Sidney Russ, Emeritus Professor of Physics of Middlesex Hospital Medical School.

We have to report the death of eight former members of the academic staff. Among these was the Rt. Hon. H. T. N. Gaitskell, member of staff in the Department of Political Economy from 1928 to 1945, and Reader and Head of the Department from 1938. He left the Department to become a wartime civil servant and did not return, though typically he cherished his association with the College and had accepted nomination for an Honorary Fellowship. It is probable that no former member of the College staff ever achieved greater prominence in national life and politics, and the College shared the nation-wide sorrow at his untimely death.

The sudden death of Emeritus Professor H. O. Corfiato came as a shock to his many friends at the College, for although he retired from the Chair of Architecture and Headship of the Bartlett School of Architecture in 1960, he was still at the time of his death actively engaged in the planning of the new buildings for the Faculty of Engineering. In the design of these, and the new Biological Sciences block, Professor Corfiato made a great contribution to post-war College building. Elsewhere in London and in many places abroad there are churches, university and other buildings, which remain as monuments to his outstanding ability as an architect. He will long be remembered in the College for the inherent kindness of his warm and generous personality, and the lively interest he took in the future of his students, many of whom, now successful architects, were inspired by his influence.

Two members of staff whose retirement in 1962 was reported in the last Annual Report, died within a year of leaving the College to which they had given a lifetime of service. They were Dr Hélène N. Coustenoble, who had been a member of staff in the Department of Phonetics for forty-four years, and Dr F. C. Harris, who entered the College as an undergraduate in 1914, and had been a member of staff in the Mathematics Department since 1919. Dr Harris will be remembered not only for his work in the Mathematics and Engineering Departments, but also as Honorary Secretary for many years of the Old Students' Association and as Warden, with Mrs Harris, of the College Rooms for women students in Cartwright Gardens in the immediate post-war period.

Professor F. W. Jane, member of staff in the Department of

Botany from 1929 to 1949 and since then Professor of Botany at Royal Holloway College, died suddenly while acting as Temporary Professor and Head of the Department of Botany at the University of Ibadan. For many years he was one of the mainstays of the Botany Department and played an important part in holding the Department together during the 1939–44 war years of its evacuation to the University College of North Wales. His most outstanding contribution to the work of the whole University was perhaps the establishment of the Botanical Supply Unit of the University of London at Englefield Green.

The College received news also of the death of Professor W. B. R. King, Yates-Goldsmid Professor of Geology from 1931 to 1943, Mr Richard O'Sullivan, Honorary Lecturer in Common Law from 1946 to 1960, and of Professor E. C. Titchmarsh, member of staff of the Mathematics Department from 1923 to 1929 and more recently Professor of Geometry in the University of Oxford.

In the course of the year the College heard with regret of the death of many of its former students, among whom were Miss L. Margaret Eyre, who entered the College in 1891 and maintained a lively and practical interest in the College throughout her long life; Professor G. R. Hargreaves, Professor of Psychiatry and Head of the Department in the University of Leeds, and Air Vice-Marshal C. E. W. Lockyer, Deputy Director of Research and Development in the Ministry of Aircraft Production during the second World War, and subsequently Bursar and Fellow of Peterhouse, Cambridge.

The Department of Anatomy and Embryology lost a valued member of its staff by the death of Dr L. H. Hamlyn in July 1963. Dr Hamlyn's association with the College began in 1938 when he was first admitted as an undergraduate medical student; and, apart from the first year in Gower Street, his medical course was completed during the war years. It was not until 1949 that he returned to the College as a member of the staff of the Department of Anatomy and Embryology. From an appointment as an Assistant Lecturer he worked his way up steadily until he was in charge of the teaching of Histology to both Second M.B. and B.Sc. (Special) students. He was appointed to the Readership in Histology in 1961.

Mention should also be made of the death of Mr R. A. Blackall, who retired in 1961 after fifty-one years' service on the Library staff, and of Mr H. Marklew, Cashier of the College from 1919 to 1948.

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APPENDIX I

COLLEGE COMMITTEE

	*Attendances**
Chairman: The Right Hon. Lord Cohen, P.C., LL.D.‡	6–7
Vice-Chairman: The Right Hon. Lord Strang, G.C.B., G.C.M.G., M.B.E., B.A., LL.D.†	7–7
Treasurer: Sir Bernard Waley-Cohen, BT, LL.D.‡	6–7
Professor G. C. Allen, C.B.E., M.COM., PH.D.§	2–3
Professor H. E. M. Barlow, B.SC.(ENG.), PH.D., M.I.E.E., M.I.MECH.E., F.R.S.†§	1–3
H. K. Cameron, B.SC., PH.D.	5–7
Mrs Irene Chaplin, B.A., J.P.	3–7
Professor W. R. Dean, M.A.	7–7
Professor M. B. Donald, M.SC., F.R.I.C., HON.M.I.CHEM.E., A.R.C.S.¶	4–4
P. Dunsheath, C.B.E., M.A., D.SC.(ENG.), D.ENG., LL.D.	5–7
Sir Ifor Evans, D.LIT.† *Provost*	7–7
Sylvester Gates, C.B.E., B.A.	4–7
Professor A. V. Hill, C.H., O.B.E., SC.D., LL.D., D.SC., M.D., F.R.S.‡	3–7
Professor R. A. Humphreys, O.B.E., M.A., PH.D.¶	4–4
Professor A. F. Huxley, M.A., F.R.S.	6–7
Sir Frederick James, O.B.E.‡	3–7
L. Margaret Kerly, M.A., PH.D.§	3–3
L. H. Macklin, O.B.E., M.A., F.R.C.M.	4–7
E. K. Martin, M.B., M.S., F.R.C.S.†	5–7
T. A. L. Paton, C.M.G., B.SC., M.I.C.E., M.AM.SOC.C.E.†	3–7
Sir Edward Playfair, K.C.B.	4–7
Constance M. Rigby, M.A., PH.D.¶	4–4
Professor E. C. Ryder, M.A., LL.B.	7–7
F. J. Stephens, M.A.‡	4–7
G. F. Vaughan, M.B., M.R.C.P., D.P.M.	4–7
G. E. Walker, O.B.E., M.A.	5–7
Professor Lady Williams, C.B.E., B.A.	1–7

* The two figures indicate respectively the number of times that the member attended, and the number of times that he was summoned to a meeting of the Committee during the year 1 October 1962 to 30 September 1963. ‡ Hon. Fellow of the College. † Fellow of the College. § Membership terminated before 30 September 1963. ¶ Appointed after 1 October 1962.

APPENDIX II

PROFESSORIAL BOARD

Chairman: Sir Ifor Evans, D.LIT., Provost†

M. Abercrombie, M.A., B.SC., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy

C. W. Allen, D.SC., Perren Professor of Astronomy

G. C. Allen, C.B.E., M.COM., PH.D., Professor of Political Economy

H. C. Allen, M.C., M.A., Commonwealth Fund Professor of American History

G. F. Arnold, B.A., Lecturer in Phonetics

Ernest Baldwin, PH.D., Professor of Biochemistry

H. E. M. Barlow, B.SC.(ENG.), PH.D., M.I.E.E., M.I.MECH.E., F.R.S., Pender Professor of Electrical Engineering†

N. A. Barnicot, PH.D., Professor of Physical Anthropology

M. S. Bartlett, M.A., D.SC., F.R.S., Professor of Statistics

R. E. D. Bishop, M.A., M.S., PH.D., D.SC.(ENG.), A.M.I.MECH.E., A.F.R.AE.S., Kennedy Professor of Mechanical Engineering

R. L. F. Boyd, B.SC.(ENG.), PH.D., M.I.E.E., Professor of Physics

F. Brailsford, B.SC.(ENG.), PH.D., M.I.E.E., Professor of Electrical Engineering

Arthur Brown, M.A., Professor of English

E. H. S. Burhop, B.A., M.SC., PH.D., F.R.S., Professor of Physics

A. H. Chilver, M.A., PH.D., D.SC., A.F.R.AE.S., Chadwick Professor of Civil Engineering

A. B. C. Cobban, M.A., PH.D., Professor of French History

Sir William Coldstream, C.B.E., D.LITT., Slade Professor of Fine Art†

P. E. Corbett, M.A., Yates Professor of Classical Art and Archaeology

D. P. Craig, D.SC., F.R.I.C., Professor of Chemistry

H. C. Darby, O.B.E., M.A., PH.D., LITT.D., Professor of Geography

Florence N. David, D.SC., Professor of Probability and Statistics

W. R. Dean, M.A., Goldsmid Professor of Mathematics

M. B. Donald, M.SC., F.R.I.C., HON.M.I.CHEM.E., A.R.C.S., Ramsay Memorial Professor of Chemical Engineering

G. C. Drew, M.A., Professor of Psychology

T. M. Dunn, M.SC., PH.D., Lecturer in Chemistry

R. H. Elvery, B.SC.(ENG.), A.M.I.C.E., Lecturer in Civil and Municipal Engineering

W. B. Emery, M.B.E., M.A., D.LIT., F.B.A., F.S.A., Edwards Professor of Egyptology

L. D. Ettlinger, PH.D., F.S.A., Durning-Lawrence Professor of the History of Art

C. Fahy, M.A., PH.D., Lecturer in Italian

Daryll Forde, PH.D., Professor of Anthropology†

D. B. Fry, PH.D., Professor of Experimental Phonetics

A. H. Gerrard, Professor of Sculpture

† Fellow of the College.

R. E. Gibbs, D.SC., F.INST.P., Reader in Physics and Tutor to Science Students†

J. A. B. Gray, SC.D., M.A., M.B., B.CHIR., Professor of Physiology

H. Grüneberg, PH.D., M.D., D.SC., F.R.S., Professor of Genetics

J. Hamilton, M.A., M.SC., PH.D., Professor of Physics

S. N. Hampshire, M.A., F.B.A., Grote Professor of Philosophy of Mind and Logic

Sir William Holford, M.A., D.C.L., LL.D., P.P.R.I.B.A., M.T.P.I., F.I.L.A., A.R.A., Professor of Town Planning

S. E. Hollingworth, M.A., D.SC., Yates-Goldsmid Professor of Geology

E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S., Professor of Chemistry†*

R. A. Humphreys, O.B.E., M.A., PH.D., Professor of Latin American History

J. Hurstfield, B.A., Astor Professor of English History†

A. F. Huxley, M.A., F.R.S., Jodrell Professor of Physiology

Raymond Irwin, M.A., F.L.A., Professor of Library Studies

E. R. H. Ivamy, PH.D., Professor of Law

B. Katz, M.D., PH.D., D.SC., F.R.S., Professor of Biophysics†

G. W. Keeton, M.A., LL.D., Professor of English Law

L. Margaret Kerly, M.A., PH.D., Reader in Biochemistry

E. H. Kossmann, LITT.D.(LEIDEN), Professor of Dutch History and Institutions

D. Lewis, D.SC., F.R.S., Quain Professor of Botany

R. Llewelyn Davies, M.A., F.R.I.B.A., Professor of Architecture

D. Lloyd, M.A., LL.D., Quain Professor of Jurisprudence†

Dame Kathleen Lonsdale, D.B.E., D.SC., F.R.S., Professor of Chemistry†

A. Maccoll, PH.D., D.SC., F.R.I.C., Reader in Chemistry

D. McKie, D.SC., PH.D., F.R.I.C., F.R.S.E., Professor of History and Philosophy of Science†

R. D. McLellan, PH.D., Senior Tutor and Senior Lecturer in Greek and Latin†

Sir Harrie Massey, D.SC., PH.D., LL.D., F.R.S., Quain Professor of Physics

W. R. Mead, M.SC.(ECON.), PH.D., Professor of Geography

A. D. Momigliano, M.A., D.LITT., F.B.A., Professor of Ancient History

J. L. Mongar, PH.D., Reader in Chemical Pharmacology

R. S. Nyholm, D.SC., F.R.I.C., F.R.S., Professor of Chemistry†

L. S. Penrose, M.A., M.D., D.SC., F.R.C.P., F.R.S., Galton Professor of Eugenics

R. Powell, D.C.L., Professor of Roman Law

Randolph Quirk, M.A., PH.D., Professor of English Language

Constance M. Rigby, M.A., PH.D., Lecturer in Mathematics

C. A. Rogers, D.SC., F.R.S., Astor Professor of Mathematics†

K. F. Roth, B.A., M.SC., PH.D., F.R.S., Professor of Mathematics

E. C. Ryder, M.A., LL.B., Professor of English Law

H. O. Schild, M.D., PH.D., D.SC., Professor of Pharmacology

G. Schwarzenberger, PH.D., DR.JUR., Professor of International Law

J. W. Scott, B.A., A.L.A., Librarian

† Fellow of the College. * Died 30 June 1963.

O. Skutsch, DR.PHIL., Professor of Latin

A. H. Smith, O.B.E., R.N.O., R.F., PH.D., D.LIT., LITT.D., FIL.DR., F.S.A., Quain Professor of English Language and Literature

S. Stein, PH.D., Reader in Hebrew

James R. Sutherland, M.A., B.LITT., LL.D., F.B.A., Lord Northcliffe Professor of Modern English Literature

O. J. L. Szemerényi, DR.PHIL., Professor of Comparative Philology

E. H. Thompson, O.B.E., B.A., F.R.I.C.S., Professor of Surveying & Photogrammetry

E. G. Turner, M.A., F.B.A., Professor of Papyrology

T. B. L. Webster, M.A., LITT.D., F.S.A., HON.R.A., Professor of Greek

R. Weiss, B.A., Professor of Italian

G. P. Wells, M.A., SC.D., F.R.S., Professor of Zoology

D. J. B. White, PH.D., Senior Lecturer in Botany

Elizabeth M. Wilkinson, PH.D., Professor of German

B. Woledge, M.A., D. DE L'UNIV., Fielden Professor of French Language and Literature

J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

APPENDIX III

HONORARY FELLOW AND FELLOWS

The following elections were made in 1963:

HONORARY FELLOW

Sir Bernard Nathaniel Waley-Cohen, Bt, Treasurer of University College London.

FELLOWS

Sir Vahé Robert Bairamian, a Federal Justice of the Supreme Court of the Federation of Nigeria.

Professor Francis William Rogers Brambell, F.R.S., Lloyd Roberts Professor of Zoology and Honorary Director, Agricultural Research Council's Unit of Embryology, University College of North Wales, Bangor.

Mr Olliver William Humphreys, C.B.E., Vice-Chairman of the General Electric Company Limited.

Professor Joel Hurstfield, Astor Professor of English History, University College London.

Professor Dennis Lloyd, Quain Professor of Jurisprudence, University College London.

Dr John David Nunes Nabarro, Physician, Middlesex Hospital, London.

Professor Claude Ambrose Rogers, F.R.S., Astor Professor of Mathematics, University College London.

Sir John Newenham Summerson, C.B.E., Curator of Sir John Soane's Museum, London.

Sir Reginald William Taylor, C.M.G., formerly Engineer-in-Chief, Crown Agents for Overseas Governments and Administrations.

APPENDIX IV

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Appointments: P. J. Ucko, B.A. (Research Assistant), formerly Research Student at Institute of Archaeology and Assistant at Warburg Institute.

J. C. Woodburn, B.A. (Research Assistant), formerly held Emslie Horniman scholarship of the Royal Anthropological Institute at University of Cambridge.

Resignations: R. G. Abrahams, B.A. (Research Assistant), to University of Cambridge.

J. F. M. Middleton, B.A., B.SC., D.PHIL. (Lecturer), to Professorship of Anthropology, North Western University, Evanston, U.S.A.

ARCHITECTURE

Appointments: Mrs Minnie L. J. Abercrombie, PH.D. (Honorary Research Associate), from Paediatric Research Unit, Guy's Hospital, London.

R. M. Maxwell, B.ARCH., A.R.I.B.A. (Senior Lecturer), private practice.

Resignation: H. C. Berry, M.S.I.A., N.D.D. (Part-time Senior Lecturer).

Retirement: R. C. White-Cooper, M.C., B.A., F.R.I.B.A. (Part-time Senior Lecturer and Tutor).

EGYPTOLOGY

Retirement: Rev. A. J. Arkell, M.B.E., M.C., D.LITT., F.S.A. (Reader), (Appointed Honorary Research Associate in Department).

ENGLISH LANGUAGE AND LITERATURE

Appointments: Judith A. Godfrey, B.A. (Research Assistant), formerly student in Department.

M. A. K. Halliday, M.A., PH.D. (Director, Communication Research Centre), from Readership in General Linguistics, University of Edinburgh.

O. Knowles, B.A. (Assistant), formerly student in Department.

G. N. Leech, B.A. (Assistant Lecturer), from Research Studentship, Communication Research Centre.

M. P. Rhodes, B.A. (Research Assistant), from University of Aarhus, Denmark.

Resignations: Professor A. G. Mitchell, M.A., PH.D. (Honorary Research Associate).

D. L. Turner, M.A. (Lecturer), to Professorship of English, University of Ankara.

FINE ARTS

Appointment: E. Uglow (Part-time Assistant).

Resignation: Claude Rogers, O.B.E. (Lecturer), to Chair of Fine Art, University of Reading.

GEOGRAPHY

Appointments: R. U. Cooke, B.SC. (Assistant Lecturer), formerly Temporary Assistant Lecturer in Department.

R. L. Heathcote, M.A. (Lecturer), from Australian National University, Canberra.

D. J. Robinson, B.A. (Assistant Lecturer), formerly student in Department.

Resignation: E. C. F. Bird, M.SC., PH.D. (Lecturer), to Senior Lectureship, Australian National University, Canberra.

GERMAN

Appointment: W. Schwarz, M.A., PH.D. (Reader), from Professorship of German, University of Amsterdam.

GREEK

Appointments: Professor D. R. Dicks, PH.D. (Honorary Research Associate), from University of Ghana.

G. H. Gellie, B.ED., M.A. (Honorary Research Associate), from University of Melbourne.

M. Winterbottom, M.A. (Lecturer), from Christ Church, Oxford.

Resignations: E. J. Jory, B.A. (Honorary Lecturer), to University of Western Australia.

Mrs Agathe H. T. Thornton, PH.D. (Honorary Research Associate), to University of Otago.

HISTORY

Appointment: J. Dent, B.A. (Assistant Lecturer), formerly Nathan Scholar of the British Institute in Paris.

Resignation: J. R. Pole, B.A., PH.D. (Lecturer), to Readership in American History and Government, University of Cambridge.

LATIN

Appointment: M. Winterbottom, M.A. (see Greek).

Resignation: E. J. Jory, B.A. (see Greek).

LIBRARIANSHIP AND ARCHIVES

Appointment: L. Bell, B.A. (Part-time Lecturer), Assistant Keeper, Public Record Office.

PHILOSOPHY

Resignation: S. N. Hampshire, M.A., F.B.A. (Grote Professor of Philosophy of Mind and Logic), to Professorship of Philosophy, Princeton University.

PHONETICS

Appointments: D. C. Bennett, B.A. (Assistant Lecturer), from King's College, London.

Mrs Frieda Goldman Eisler, DR.PHIL. (Lecturer), formerly held honorary appointment.

J. C. Wells, M.A. (Assistant Lecturer), formerly postgraduate student in Department.

POLITICAL ECONOMY

Appointment: D. R. Croome, B.A. (Research Assistant), from University of Durham.

TOWN PLANNING

Resignation: L. F. Baker, M.A., A.R.I.B.A., A.M.I.STRUCT.E., A.M.T.P.I. (Part-time Lecturer and Drawing Office Instructor).

FACULTY OF LAWS

Appointments: J. S. Coward, LL.B. (Lecturer), joint appointment with Home Office Police College.

E. L. Johnson, M.A., LL.B. (Honorary Lecturer), Head of Law Department at Holborn College of Law, Languages and Commerce.

Mrs K. Sultana Saeed, B.A., LL.M. (Research Assistant).

Resignation: S. Prevezer, M.A., LL.M. (Reader), private practice.

FACULTY OF SCIENCE

BOTANY

Appointments: I. Morris, B.SC. (Assistant Lecturer), formerly held D.S.I.R. Research Scholarship.

R. J. Rowbury, B.A. (Lecturer), formerly Agricultural Research Council Scholar University of Oxford.

R. G. Stanley, PH.D. (Honorary Research Associate), from U.S. Forest Experiment Station, Berkeley.

CHEMISTRY

Appointments: M. D. Johnson, PH.D., A.R.I.C. (Lecturer), formerly held honorary appointment.

M. H. B. Stiddard, PH.D. (Lecturer), from Lectureship, University of Hull.

Resignations: C. A. Bunton, PH.D. (Reader), to Chair of Organic Chemistry, University of California, Santa Barbara.

T. M. Dunn, M.SC., PH.D. (Lecturer), to Professorship of Chemistry, University of Michigan.

B. N. Figgis, M.SC., PH.D. (Lecturer), to Lectureship, University of Western Australia.

Death: E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S. (Professor of Chemistry).

PHYSICS

Appointments: P. J. Bowen, B.SC.(ENG.), PH.D. (Honorary Research Associate), formerly Honorary Research Assistant.

M. J. B. Duff, PH.D. (Lecturer), formerly held honorary appointment.

PSYCHOLOGY

Resignations: G. A. Foulds, M.A., PH.D. (Part-time Lecturer).

A. J. Marshall, PH.D. (Honorary Research Associate), to University of Western Australia.

STATISTICS

Appointments: H. M. Finucan, B.A. (Honorary Research Associate), from University of Queensland.

A. G. Hawkes, B.SC. (Assistant Lecturer), formerly postgraduate student in Department.

T. Lewis, M.A. (Lecturer), from Lectureship in Mathematical Statistics, University of Manchester.

Resignation: N. L. Johnson, M.SC., PH.D., F.I.A. (Reader), to Professorship of Statistics, University of North Carolina.

ZOOLOGY AND COMPARATIVE ANATOMY

Appointments: A. S. G. Curtis, M.A., PH.D. (Lecturer), formerly held honorary appointment in Anatomy and Embryology.

H. Fox, PH.D. (Research Assistant), formerly part-time Research Assistant.

FACULTY OF ENGINEERING

CIVIL AND MUNICIPAL ENGINEERING

Appointments: Sheena M. Johnson, B.SC. (Research Assistant), formerly student in Department.

H. R. Oakley, M.SC.(ENG.), M.I.C.E. (Honorary Research Associate), formerly Honorary Research Assistant.

C. J. Turkstra, M.SC., PH.D. (Lecturer), from industry.

Resignation: C. Snell, M.SC. (Lecturer), to Lectureship, University of Nottingham.

MECHANICAL ENGINEERING

Appointments: W. K. Allan, M.S. (Lecturer), from Royal Military College of Science.

R. P. Brann, B.SC. (Lecturer), formerly held honorary appointment.

A. G. Parkinson, M.SC., D.I.C. (Lecturer), formerly held honorary appointment.

Resignation: T. R. Shepherd (Assistant).

ELECTRICAL ENGINEERING

Resignation: G. D. Sims, M.SC., PH.D., A.M.I.E.E., A.R.C.S., D.I.C. (Senior Lecturer), to Professorship of Electronics, University of Southampton.

CHEMICAL ENGINEERING

Appointments: M. D. Lilly, PH.D. (Lecturer), formerly held temporary appointment.

A. W. Nienow, B.SC.(ENG.), (Lecturer), from West Ham College of Technology.

PHOTOGRAMMETRY AND SURVEYING

Appointment: D. P. Mason, M.A. (Lecturer), from Shell Petroleum Company, Nigeria.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: V. C. Barber, B.SC. (Research Assistant), from Institute of Neurology, London.

Anne M. L. Dryland, B.SC. (Research Assistant), from London School of Hygiene and Tropical Medicine.

Professor P. Graziadei, M.D. (Honorary Research Associate), from University of Genoa.

W. R. Hayhow, M.B., B.S. (Honorary Research Associate), from University of Sydney.

Patricia V. Johnston, M.SC., PH.D., A.R.I.C. (Honorary Lecturer), formerly at University of Illinois.

R. D. Lund, B.SC. (Assistant Lecturer), formerly student in Department.

Mrs Marion Nixon, B.SC. (Research Assistant), from Royal Free Hospital School of Medicine.

Betty I. Roots, B.SC., PH.D. (Honorary Lecturer), from Royal Free Hospital School of Medicine.

G. W. C. Sommerhoff, M.A. (Honorary Research Associate).

J. F. Taylor, M.B., CH.B. (Assistant Lecturer), from Scottish Livingstone Hospital, Molepolole, Bechuanaland.

K. E. Webster, B.SC., PH.D., M.B., B.S. (Assistant Lecturer), formerly postgraduate student at University College Hospital Medical School.

J. R. L. Westaway, M.B., B.S. (Assistant Lecturer), from Royal Northern Hospital.

Resignations: J. L. Craven, B.SC., M.B., CH.B. (Assistant Lecturer), to Manchester Royal Infirmary.

D. I. R. Higton, M.B., B.S., M.R.C.S., L.R.C.P. (Assistant Lecturer), to Bromley Group Hospital.

J. S. P. Lumley, M.B., B.S., M.R.C.S., L.R.C.P. (Assistant Lecturer), to University College Hospital.

B. C. MacGregor Williamson, M.B., B.S. (Assistant Lecturer), to King's College Hospital.

Death: L. H. Hamlyn, M.B., B.S., M.R.C.S., L.R.C.P. (Reader).

BIOCHEMISTRY

Appointments: D. B. Roodyn, M.A., PH.D. (Lecturer), from National Institute for Medical Research.

I. R. Johnston, M.SC. (Assistant Lecturer), formerly Research Assistant in Department.

R. Virden, M.SC. (Research Assistant), formerly student in Department.

D. C. Watts, M.SC., PH.D. (Lecturer), formerly held honorary appointment.

Resignations: E. M. Crook, M.SC., PH.D. (Reader), to Chair of Biochemistry, St Bartholomew's Hospital Medical College, (Appointed Honorary Lecturer in Department).

E. M. Shooter, M.A., PH.D. (Lecturer), to Associate Professorship, Stanford University, California, (Appointed Honorary Lecturer in Department).

BIOPHYSICS

Appointment: Sally G. Page, M.SC. (Assistant Lecturer), from University of Canterbury, New Zealand.

PHARMACOLOGY

Appointments: S. E. Dicker, M.D., PH.D., D.SC. (Honorary Research Associate), formerly Lecturer in Department.
I. K. M. Morton, B.SC. (Research Assistant), from industry.
R. A. Webster, PH.D. (Lecturer), formerly held honorary appointment.

PHYSIOLOGY

Appointments: P. E. Hallett, M.A., B.SC., B.M. (Assistant Lecturer), from University of Oxford.
W. Lathem, M.D. (Honorary Research Associate), from University of Pittsburg.
A. R. Ness, B.SC., L.D.S. (Lecturer), formerly held honorary appointment.
R. C. Woledge, B.SC. (Sharpey Scholar), formerly held M.R.C. Scholarship in Department.

Resignation: D. Noble, PH.D. (Assistant Lecturer), to Fellowship in Physiology, Balliol College, Oxford.

APPENDIX V

PUBLIC LECTURES

COMMEMORATION LECTURE

FOURTH CENTENARY OF THE BIRTH OF ROBERT CECIL

Professor Joel Hurstfield, Astor Professor of English History: 'Robert Cecil, Earl of Salisbury, Minister of Elizabeth I and James I, 1563–1612'

ENDOWED LECTURES

BARLOW LECTURES

Professor C. Grayson, Oxford: 'Dante and the Italian Language' (three lectures)

COMMONWEALTH FUND LECTURES

Professor David M. Potter, Stanford University: 'The Compulsions of a Voluntaristic Society: Individual Freedom and its Limitations in American Life' (six lectures)

LORD NORTHCLIFFE LECTURES IN LITERATURE

Professor Bonamy Dobrée : 'Rudyard Kipling: Realist and Visionary' (four lectures)

RICKMAN GODLEE LECTURE

Sir Vivian Fuchs: 'The Human Element in Exploration'

INAUGURAL LECTURES

Professor Arthur Brown, Professor of English: 'Edmond Malone and English Scholarship'
Professor R. L. F. Boyd, Professor of Physics: 'Celestial Laboratories'
Professor E. H. Kossmann, Professor of Dutch History and Institutions: 'In Praise of the Dutch Republic: Some Seventeenth-Century Attitudes'

Professor W. R. Mead, Professor of Geography: 'The Geographical Tradition in Finland'
Professor Elizabeth M. Wilkinson, Professor of German: 'In Praise of Aesthetics'

LUNCH-HOUR LECTURES

Mr P. R. Bell: 'The Mystery of the Plant Egg'
Dr E. C. F. Bird: 'Coastal Lagoons'
Dr A. D. Blest: 'Moths and Predators'
Dr Marian E. A. Bowley: 'Economics and Architecture'
Dr R. E. Bradbury: 'The Ogwega Oracle—an index to Benin Culture'
Mr B. C. Brookes: 'The Limits of Human Communication'
Mr A. P. Cavendish: 'Philosophy as Ritual'
Professor Alfred Cobban: 'French History and French Politics'
Professor P. E. Corbett: 'The Bird and the Ladder: pets, beasts and monsters in Greek art'
Mr Thorold Dickinson: 'Should Britain have a Film School?'
Dr McD. Emslie: '*The Vicar of Wakefield* and the Cash Nexus'
Professor L. D. Ettlinger: 'Picasso and History Painting'
Dr G. Fielder: 'The Moon's Surface'
Mr D. J. Furley: 'The Invention of Atoms'
Dr June Goodfield: 'Film or the Printed Page: the prospect before us'
Dr C. J. Holdsworth: 'Visions and Visionaries in the Middle Ages'
Professor Sir William Holford: 'The Life and Death of the Big City'
Dr W. Glyn Jones: 'Two Anglo-Danish Scandals'
Dr H. Kalmus: 'Axioms and Theorems in Biology'
Mr J. Maynard Smith: 'The Biology of Patterns'
Mr J. D. Moores: 'The Victim of a Legend: Torquato Tasso'
Professor L. S. Penrose: 'Finger-prints, Palms and Chromosomes'
Dr B. Schlaffenberg: 'Holidays with Pay: a Town Planner's View'
Dr M. A. Screech: 'Rabelaisian Laughter'
Mr P. J. Syrett: 'Photosynthesis: The Basis of Life'
Professor E. H. Thompson: 'Photogrammetry in the Restoration of Castle Howard'
Mr H. W. Thorp: 'Magnesia from Sea-water: a new British industry'
Dr S. E. Toulmin: 'Heresy in Science'
Mr A. G. Watson: 'Manuscripts and Historians in Early Stuart England'
Mr N. F. Watson: 'Inside-out Architecture'
Mr R. A. Wollheim: 'Mill on Liberty'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

ARCHITECTURE

Professor R. Buckminster Fuller, Southern Illinois: 'Philosophy and Structure' (three lectures)

BIOCHEMISTRY

Dr Myron L. Bender, Northwestern University, Evanston, Illinois: 'Spectrophotometric and Kinetic Investigations of the Mechanism of Catalysis by Chymotrypsin'

Dr J. D. Judah, Wistar Institute, Philadelphia: 'The Biochemistry of Ion Transport' (two lectures)
Professor H. L. Kornberg, Leicester: 'The Metabolism of Two-carbon Compounds in Micro-organisms' (three lectures)
Dr J. S. McKinley-McKee, Hammersmith Hospital: 'The Mechanism of Enzyme-Pyridine Nucleotide Coenzyme Reactions'

GREEK

Mr Robert Fitzgerald reading from his translation of *The Odyssey*

LAWS

Mr Morris Ernst of the New York Bar: 'Censorship and the Law in the U.S.A.' 'Authors, Lawyers and Freedom of Expression' (two lectures)
Mr R. G. Lloyd, Q.C.: 'English Law and the Common Market: The Protection of Industrial Property'

PHARMACOLOGY

Professor F. Bergel: 'The Therapeutic Future of Larger and Larger Molecules'
Professor W. S. Feldberg: 'A New Pharmacological Approach to the Brain'
Dr J. H. Gaddum: 'Chemical Transmission in the Central Nervous System'

APPENDIX VI

NUMBERS OF STUDENTS, SESSION 1962–63

	Under-graduates		*Post-graduates*		*Totals*	
Faculty of Arts:						
(*a*) General	909	(246)	262	(74)	1,171	(320)
(*b*) Department of Political Economy ..	134	(2)	14	(3)	148	(5)
(*c*) Slade School of Fine Art	187	(28)	27	(5)	214	(33)
(*d*) Bartlett School of Architecture ..	90	(—)	2	(—)	92	(—)
(*e*) Department of Town Planning ..	29	(29)	107	(106)	136	(135)
(*f*) School of Librarianship and Archives ..	—	(—)	54	(17)	54	(17)
Faculty of Science	720	(8)	415	(89)	1,135	(97)
Faculty of Medical Sciences	209	(1)	9*	(—)	218	(1)
Faculty of Engineering	232	(1)	111	(8)	343	(9)
Faculty of Laws	297	(34)	130	(37)	427	(71)
	2,807	(349)	1,131†	(339)	3,938	(688)

* This figure excludes 61 full-time and 2 part-time postgraduate students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

† Of this number 747 were registered for higher degrees of the University of London; the remainder were working for higher diplomas of the University or of the College or higher degrees of other universities, engaged in research work, or attending postgraduate lecture courses.

The figures in brackets indicate the number of part-time students included in the total under each head.

APPENDIX VII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1962–63

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM			
London	247	158	405
Home Counties (30 mile radius)	676	256	932
Remainder of United Kingdom	1,489	271	1,760
BRITISH COMMONWEALTH OF NATIONS			
Australia	5	23	28
Canada	7	48	55
Ceylon	4	14	18
Ghana	10	3	13
Hong Kong	14	5	19
India	22	60	82
New Zealand	3	12	15
Nigeria	60	27	87
Pakistan	8	28	36
Rhodesia and Nyasaland	9	3	12
18 other countries	45	20	65
OTHER PARTS OF THE WORLD			
Egypt	2	21	23
France	52	2	54
Germany	17	4	21
Greece	1	12	13
Iran	4	7	11
Iraq	3	12	15
Israel	2	11	13
Netherlands	7	11	18
Spain	5	5	10
South Africa	7	12	19
Sweden	9	1	10
U.S.A.	44	49	93
40 other countries	55	56	111
	2,807	1,131	3,938

SUMMARY

United Kingdom	3,097
British Commonwealth of Nations	430
Other Parts of the World	411
	3,938

APPENDIX VIII

APPLICATIONS AND ADMISSIONS
SESSION 1962–63

FIRST DEGREE AND FIRST DIPLOMA STUDENTS

FACULTY OF ARTS	*Applicants for Admission*	*Students Admitted October* 1962
B.A. Honours		
Anthropology	25	5
Dutch	1	1
English	549	44
French	501	32
Geography	188	28
German	199	19
Greek and Latin	111	13
Hebrew	8	5
History	392	33
Italian	14	4
Philosophy	23	11
Philosophy and Economics	20	1
Philosophy and Greek	4	1
Philosophy and Psychology	48	2
Psychology	81	9
Scandinavian Languages	11	3
	2,175	211
B.Sc.(Econ.)	914	49
University Diploma in Fine Art	500	41
B.A. Honours in Architecture	86	11
Diploma in Architecture	12	2
	98	13
FACULTY OF SCIENCE		
B.Sc.(Special)		
Anthropology	25	4
Astronomy	26	6
Biochemistry	85	13
Botany	118	8
Chemistry	686	50
Geography	148	13

	Applicants for Admission	*Students Admitted October* 1962
B.Sc.(Special) — cont.		
Geology	112	8
Mathematics	682	39
Microbiology	11	2
Physics	638	48
Physiology	44	11
Psychology	110	18
Statistics	60	18
Zoology	313	14
	3,058	252
B.Sc.(Architecture) with Honours	127	12
FACULTY OF LAWS		
LL.B.	669	97
FACULTY OF ENGINEERING		
B.Sc.(Eng.)		
Chemical Engineering	252	17
Civil and Municipal Engineering	341	24
Electrical Engineering	314	23
Mechanical Engineering	234	25
	1,141	89
FACULTY OF MEDICAL SCIENCES		
2nd Examination for Medical Degrees ..	961	81
2nd Examination for Dental Degrees ..	420	47
	1,381	128
Totals	10,063	892

APPENDIX IX

UNIVERSITY HONOURS

HIGHER DEGREES

FACULTY OF ARTS

D.Lit. *English:* J. H. P. Pafford. [1]

Ph.D. *Archaeology:* R. Hope Simpson, †P. J. Ucko, Anne G. Ward. *Classics:* A. W. Blackett, J. R. Green, P. Kingston. *Egyptology:* D. M. Dixon. *English:* A. T. Brissenden, A. P. Reiman, A. C. Spence. *French:* A. E. A. Lequet. *Geography:* R. E. Glasscock, Leila M. Osman, R. G. Ward. *History:* L. M. Bethell, J. W. Eadie, Olwen W. Hufton, J. G. Kellas, A. G. R. Smith. *Philosophy:* T. P. Brown, J. B. O'Malley, E. Pivcevic. *Psychology:* Beatrice M. D. Cast, J. Penrose, A. P. E. L. Sealy, A. G. Worthington. [26]

M.A. *Architecture:* S. Bhattacharyya. *Classics:* J. A. Akinpelu, S. M. Hughes. *English:* *V. V. Ballardini, *J. T. Dodd, *Annabel Endicott, G. R. Morisset, D. I. Nwoga, V. G. Watson. *Geography:* J. W. Edwards. *Hebrew:* D. Goldstein. *Philosophy:* Susan Kahn. *Psychology:* Mary Haritos-Fatouros. *Scandinavian Languages:* A. G. V. Wilshaw. [14]

FACULTY OF ECONOMICS

Ph.D. B. B. Bernstein, J. Markus, J. L. Oliver. [3]

M.Sc. J. D. Chapatwala, H. R. De Zoysa, S. M. Hussain, M. M. Ismail, C. A. B. N. Jayarajah, A.M.-E. M. A. Mohie-Eldin, A. Rojanapaibulya, Z. Safvat, G. Yannopoulos. [9]

FACULTY OF LAWS

Ph.D. A. S. Anand, B. Hargrove, W. V. Herbert, S. A. Ibeziako, D. W. M. Waters, J. S. Ziegel. [6]

LL.M. L. M. Alkin, P. C. Assheton, P. N. Banerji, T. W. B. Barnes, D. O. Boston, A. R. Chinwuba, D. F. E. Essessien, F. M. Fraser, R. D. Garg, R. W. James, G. Josman, A. B. Kamarah, D. P. Kar, †A. B. Kasunmu, S. G. MacKinnon, B. Misra, D. R. Mistry, D. J. L. Mobsby, P. W. Moody, A. Rehman, *Gwendolen P. Watson, A. G. K. Whyte, J. C. Woodliffe. [23]

FACULTY OF SCIENCE

D.Sc. *Botany:* Irene M. Wilson. *Chemistry:* C. A. Parker. *Statistics:* N. L. Johnson. [3]

Ph.D. *Anatomy:* P. N. Dilly, M. F. Moody. *Astronomy:* J. S. Griffith, T. Saemundsson. *Biochemical Engineering:* J. E. Munden. *Biochemistry:* I. R. Johnston, R. L. Joseph, E. P. Whitehead. *Botany:* P. Fay, D. O. Gray, B. V. H. Milborrow, Czeslawa Nalewaijko, J. H. Sparling, *Chemistry:* J. Arnold, R. C. L. Bicknell, R. Bramley, M. D. Carr, S. C. Chan, Tessa S. Godfrey, B. N. Hendry, H-M. Hoffmann, O. R. Khan, R. G. Kidd, R. F. Long, J. E. Morgan, C. S. Pande, J. E. Parkin.

* Awarded a mark of distinction. † Also registered at another Institution.

D. P. Santry, P. W. Smith, G. A. Rodley, J. M. Upadhyay. *Genetics:* Joy Delhanty. *Geography:* K. J. Gregory, I. G. Simmons. *Mathematics:* S. H. Smith, R. L. Wallis. *Micropalaeontology:* M. H. Khan. *Palaeontology:* T. Raychaudhuri. *Pharmacology:* F. Imms, V. M. Rosenoer. *Physics:* A. W. Badcock, A. R. Bevan, G. Duff, M. A. Fox, P. D. Gunatilake, K. Higgins, M. Hussain, M. Islam, A. R. J. W. Lee, G. J. Lush, A. D. Martin, N. N. Raina, M. R. H. Rudge, T. W. W. Stewart. *Physiology:* A. Angel, K. Deite Spiff. *Psychology:* O. P. Wallis. *Zoology:* H. Maldonado, R. K. Murton, D. F. Woodrow. [60]

M.Sc. *Biochemistry:* A. F. Bradbury, D. J. Galton, C. G. Knight, G. G. Muir, J. A. Smith, D. S. Turner, R. Virden, M. K. Watt, Rosemary L. Watts. *Chemistry:* J. Ray. *Geography:* Juliet F. Wain. *History and Philosophy of Science:* W. J. Gladwin. *Mathematics:* T. Evans, I. R. Phillips, J. St. L. Sinnadurai, J. F. Spencer, R. G. Wilson. *Microbiology:* Valerie C. Fletcher, D. J. Garwes. *Physics:* J. E. G. Farina, M. A. Hennell, R. Prasad. *Physiology:* D. A. A. D'A. F. Bristow, M. Subrahmanyam. *Psychology:* B. M. Moore. *Statistics:* G. Ghirtis. [26]

FACULTY OF ENGINEERING

Ph.D. *Chemical:* T. W. Honeyman, K. D. Raven, B. Roseman. *Electrical:* J. D. H. Alexander, R. Gagne, M. W. Gunn. *Photogrammetry:* I. A. Harley. [7]

M.Sc. *Civil:* E. W. J. Diaper, †A. K. Lal. *Electrical:* G. Singh. [3]

FACULTY OF MEDICINE

Ph.D. *Biochemistry:* M. M. Fisher. *Embryology & Cytology:* Frances Lefford. *Neurobiology:* M. L. Colonnier. [3]

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Anthropology: J. E. Lavers. *Chemistry:* S. Doonan. *Engineering:* L. J. Stagg. *English:* Patricia M. Matthews, Patricia M. Stoneman. *French:* M. C. Smith. *Geography:* Rosemary A. H. Webber. *German:* June M. H. Byrne. *History:* Christine A. Bolt, Pamela M. Cartlidge, Brenda M. Davies.

UNIVERSITY STUDENTSHIPS

Anatomy: A. R. Lieberman. *Botany:* C. L. F. Woodcock. *Chemistry:* R. G. Coombes (Neil Arnott Studentship). *Mathematics:* D. G. Larman.

APPENDIX X

COLLEGE AWARDS TO STUDENTS

I.—ENTRANCE SCHOLARSHIPS

Andrews Scholarships.—Arts: Elisabeth A. Bailey, Allerton Grange Comprehensive School, Leeds. *Classics:* J. A. Butterworth, Rochdale Grammar School.

Bartlett Exhibitions in Architecture.—P. Babb, Harrow Technical College and Imperial College; D. W. Dunster, Gillingham Grammar School.

† Also registered at another Institution.

Bucknill Scholarship (Medical Sciences).—P. A. Sackin, Hendon County Grammar School.
Dawes Hicks Scholarship in Philosophy.—A. Lassiere, Ashville College, Harrogate and University of Southampton.
Epsom Medical Scholarship.—I. W. Forster.
Goldsmid Science Scholarship.—A. Freeman, Rayleigh Sweyne Grammar Technical School, Rayleigh.
Hume-Lloyd Scholarship in Political Economy.—A. Lassiere, Ashville College, Harrogate and University of Southampton.
Laws Scholarship.—M. R. Freedland, Hendon County Grammar School.
Rosa Morison Scholarship.—Pamela Brown, Woodford High School.
St. Pancras Scholarship.—A. W. Dunlop, Stationers' Company's School.

II.—OTHER SCHOLARSHIPS AND DISTINCTIONS

Anatomy Class Prizes.—Medical: Elizabeth J. Howe. *Dental:* M. L. Heath.
Herbert Batsford Prize (Architecture).—J. Leach.
Thomas Witherden Batt Scholarship.—Shanta Gupta.
Francis Perch Bedford Prize (Zoology).—P. H. Smith.
Bonney Prize (Geology).—C. P. Summerhayes.
The Bossom Prize (Architecture).—B. B. Nutt.
Mary Brodrick Prize (Geography).—A. H. Dawson.
'The Builder' Prize (Architecture) (December 1962 award).—R. C. W. Warren.
The Chadwick Medal and Prize (Civil Engineering).—C. R. Ison.
Churchill-Jenkinson Prize (Archive Administration).—J. Hackney.
Antonio Cippico Medal and Prize.—Elizabeth A. Quinn.
Lilian Clarke Prize (Botany).—C. L. F. Woodcock.
Clinton Prize (Electrical Engineering).—B. S. Hegarty and S. H. Taheri, prize equally divided.
Cluff Memorial Prize (Medical).—J. Saklatvala.
Cowley Prizes.—Archive Administration:—C. A. McLaren.
Librarianship:—P. A. Hoare and B. R. Hunter.
Dawes Hicks Scholarship in Philosophy.—E. H. Stubbes.
Donaldson Medal (Architecture).—A. P. Matthews.
Early English Text Society's Prize.—P. J. Beech.
Richard FitzGerald Prize (Engineering).—A. G. Herbert and B. C. T. Jenkins, prize equally divided.
Sir Banister Fletcher Prize (Architecture).—P. S. Boyle, J. C. Girling and A. H. N. Merrett, prize equally divided.
Foyle Prize (Latin).—A. Dunn.
Stephen Glanville Memorial Scholarship (Egyptology).—G. T. Martin.
Goldsmid Engineering Postgraduate Scholarship.—R. M. W. Horner.
Edith Goodyear Prize (Geology).—R. Stabbins.
Eleanor Grove Scholarship (German).—Margaret C. Hyatt.
Archibald P. Head Memorial Medals and Prize (Mechanical Engineering).—M. J. Hall and M. H. Rigler, medal each and prize equally divided.
Heimann Medal (German).—Josephine M. Annable.
Elsie Hitchcock Prize (English).—I. M. Marks.
Hollier Scholarship in Greek.—P. Considine.
Hollier Scholarship in Hebrew.—G. S. Gibson.
Joseph Hume Scholarship in Jurisprudence.—Diana H. Pink.

Hurst Prize in English Law.—M. H. Gotheridge.
Jevons Memorial Scholarship in Economic Science.—W. Knapper.
Jews' Commemoration Scholarship.—A. J. Smith (Laws).
Jolowicz Prize (Roman Law).—P. T. O'Neill.
Ker Memorial Prize (English).—Gloria R. Cigman.
Sir John MacAlister Medal (Librarianship).—Phyllis M. Laybourn.
Malden Scholarship (Greek).—G. M. Sifakis.
Medical Sciences (Special Courses) Exhibitions.—Anatomy: P. C. L. Beverley; M. C. Bishop; J. E. Boys; C. R. Butler; E. W. McLarty; C. J. Mitchell; A. J. Sweatman; P. G. Wragg. *Physiology:* R. G. Cockbain; A. R. Hayward; *W. St. C. Symmers; *J. S. Walker. *Biochemistry:* Marion S. Apley; R. A. Knight.
Medical Sciences (Special Courses) Scholarships.—Anatomy: M. J. Bendall; J. Saklatvala; *S. M. Zeki.
Sir William Meyer Prize (Geography).—J. D. B. Sheail.
Sir William Meyer Essay Prize (Geography).—H. D. Foster and J. D. B. Sheail, prize equally divided.
Sir William Meyer Prize (History).—S. A. Haslam.
Sir William Meyer Prize in Modern History.—D. V. Kennelly.
Sir William Meyer Travelling Studentships (History).—J. R. Fisher; Christine M. Marsh; L. P. Morris; G. R. Oliver; J. L. Price.
John Stuart Mill Scholarship in Philosophy of Mind and Logic.—E. H. Stubbes.
Rosa Morison Prizes.—Anthropology: Margaret E. Kenna. *French:* Jennifer J. Beard. *Philosophy:* R. B. Todd. *Scandinavian Languages:* M. P. Barnes.
Morley Medal (Modern English Literature).—J. Wright.
Morris Prize (Geology).—I. R. Stone.
Melvill Nettleship Prize for Figure Composition.—P. C. Gaisford and D. Spiller, prize equally divided.
Parry Prize (Geography).—A. D. M. Phillips.
Physiology Prizes.—Medical: M. M. Feldman. *Dental:* Jennifer A. Luke; S. R. Simmons.
Platt Prizes (Greek).—A. Dunn.
Pollard Prize (History).—J. R. Fisher.
Ramsay Memorial Medal (Chemistry).—Jean K. G. Watson.
Ricardo Scholarship (Political Economy).—W. Knapper.
Graham Robertson Travelling Scholarship (Fine Art).—J. Longworth.
Robert Ross Scholarship in Fine Art.—J. H. Wonnacott.
Hester Rothschild Scholarship (Hebrew).—G. S. Gibson.
Mayer de Rothschild Scholarship in Pure Mathematics.—D. G. Larman.
Steer Prizes (Fine Art).—First Prize: C. C. Staveley. *Second Prize:* S. F. McKenna and Sigrid Quemby, prize equally divided.
Suckling Memorial Prize (Practical Anatomy).—P. G. Wragg.
Sir Andrew Taylor Prize in Architecture.—P. S. Boyle.
Sir Andrew Taylor Prize in Fine Art.—P. C. Gaisford.
Henry Tonks Prize (Fine Art).—D. Spiller.
Tuffnell Scholarship (Chemistry).—R. G. Coombes.
L. F. Vernon-Harcourt Prize (Civil Engineering).—M. R. Price.
Ellen Watson Memorial Scholarship in Applied Mathematics.—B. H. F. Wehrfritz.
The Audrey Wykeham Prize (Fine Art).—S. F. McKenna.

* Award includes fee remission.

APPENDIX XI

FIRST DEGREE EXAMINATION RESULTS

FACULTY OF ARTS

B.A. Honours	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anthropology	—	3	3	1	7
Classics	2	2	6	5	15
English	1	12	14	8	35
French	—	2	13	2	17
Geography	1	12	12	—	25
German	3	8	4	3	18
Hebrew	—	—	2	—	2
History	—	16	17	2	35
Italian	1	3	2	1	7
Latin	1	—	1	—	2
Philosophy	—		2	1	5
Philosophy and Economics	—	—	1	1	2
Philosophy and Psychology	—	1	—	—	1
Psychology	1	2	3	3	9
Scandinavian Languages	1	—	1	—	2
	11	63	81	27	182

	Pass	Total
B.A. Aegrotat	2	2

	1st Class Honours	2nd Class Honours	3rd Class Honours	Total
B.A. Honours in Architecture (Old Regulations)	—	5	7	12

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
B.A. Honours in Architecture (Revised Regulations)	—	3	2	—	5

FACULTY OF ECONOMICS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	Pass	Total
B.Sc. (Economics)	1	*8	†18	13	40

FACULTY OF LAWS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	Pass	Total
LL.B.	1	14	28	27	70

* Includes one student also registered at another Institution; † includes two such students.

FACULTY OF SCIENCE

B.Sc. (Special)	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anatomy	2	4	1	—	7
Anthropology	—	2	1	1	4
Astronomy	2	—	1	1	4
Biochemistry	5	4	7	2	18
Botany	1	4	4	1	10
Chemistry	6	*12	8	*5	31
Geography	—	4	8	—	12
Geology	—	4	3	—	7
Mathematics	6	3	10	4	23
Physics	13	13	4	9	39
Physiology	2	4	7	3	16
Psychology	2	10	1	—	13
Statistics	—	—	2	3	5
Zoology	2	3	2	2	9
	41	67	59	31	198

B.Sc. Degree	Pass	Total
Chemistry	5	5
Mathematics	5	5
Statistics	6	6
	16	16

B.Sc. Aegrotat				1	1

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
B.Sc. (Architecture) with Honours	—	—	1	1	2

FACULTY OF ENGINEERING

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	Pass	Total
B.Sc. (Engineering)	9	11	5	12	37
B.Sc. (Engineering) Chemical Engineering	2	1	3	6	12

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 67 students passed

* Includes one student also registered at another Institution.

APPENDIX XII

BENEFACTIONS AND DONATIONS

The College Committee makes grateful acknowledgment of the following gifts:

Admiralty

(1) A grant not exceeding £1,279 for six months from 1 October 1962 for the Department of Physics for upper atmospheric research.

(2) A grant of £1,856 for not less than one year from 1 January 1963 for theoretical and experimental study in the Department of Electrical Engineering of correlation techniques for time delay measurement.

Agricultural Research Council

A grant of £1,111 for one year from 1 September 1962 for research in the Department of Chemistry on threonine dehydrase from sheep liver.

American Chemical Society

An additional grant of $190 for two years and seven months from 1 February 1961 for study in the Department of Chemistry of gas-phase homogeneous catalysis.

Anonymous

(1) A further gift of £20,000 for the new hall of residence in Fitzroy Street, and a gift of £20,000 towards the purchase of land and properties at Kentish Town as a site for another hall of residence.

(2) A gift of £5 for the School of Librarianship and Archives to augment the Cowley Prize in Librarianship.

Asthma Research Council

A grant of £200 for one year from 1 January 1963 for research in the Department of Pharmacology on problems of mechanisms of anaphylaxis.

William Waldorf Astor Foundation

(1) A grant of $6,000 for the Department of History to meet major part of expenses of a member of staff during a visit to South America for the period 1 to 22 October 1962.

(2) A grant of $4,500 to enable a member of staff of the Department of History to visit Latin America for four months in 1963.

(3) A grant of $2,500 to enable a member of staff of the Department of Geography to visit Venezuela.

Messrs B. T. Batsford

The increase of the annual value of the Herbert Batsford Prize in Architecture from £5 5*s*. 0*d* to £10 10*s*. 0*d*.

Bell's Asbestos and Engineering (Holdings) Limited

A donation of £100 towards the cost of the new Engineering Building.

British Celanese Limited

A grant of £200 for the years 1961 and 1962 for general upkeep of the Department of Chemical Engineering.

British Electrical and Allied Industries Research Association

Grants of £650 for one year from 1 January 1962 and £450 for nine months from 1 January 1963 for research in the Department of Electrical Engineering on the general subject of magnetic materials.

British Empire Cancer Campaign

(1) A grant of £946 for one year from 1 October 1962 for research in the Department of Anatomy and Embryology on nucleic acids in embryonic cells.

(2) A grant of £1,346 for nine months from 1 January 1963 for cancer research in the Department of Pharmacology.

(3) A grant of £892 for nine months from 1 January 1963 for chemical study in the Department of Chemical Engineering of lipid-protein complexes extractable from normal and cancerous human lungs.

(4) An additional grant of £700 for an extended date to 30 September 1963 for investigation in the Department of Biochemistry of the size, structure and enzyme activities of the ribonucleaprotein particles from ascites tumour cells.

British Glues and Chemicals Limited

A grant of £575 for 1962–63 for a research studentship in the Department of Chemical Engineering.

British Iron and Steel Research Association

A grant of £420 for research in the Department of Civil and Municipal Engineering on stress concentrations under wheel loads.

British Transport Commission

A grant of £15,474 for five years from 1 March 1961 for investigation in the Department of Mechanical Engineering into the oscillation of rolling stock.

British Xylonite Company Limited

A donation of £50 towards the cost of the new Engineering Building.

The Builder Limited

A grant of twenty guineas per annum for the Bartlett School of Architecture for 'The Builder' Prize for Measured Drawings, to be used for the purchase of books.

Carreras Limited

A donation of £250 towards the cost of the new Engineering Building.

Cement and Concrete Association

A grant of £250 for one year from 1 October 1962 for research in the Department of Civil and Municipal Engineering in concrete technology.

Lt. Col. B. E. Coke

A gift of £500 for the Department of Scandinavian Studies to increase the capital fund for the Dorothea Coke Memorial Lecture in Northern Studies.

Cold Rolled Sections Association

A grant of £1,000 per annum for three years from 1 October 1962 for research in the Department of Civil and Municipal Engineering on cold rolled sections.

Richard Costain Limited

A donation of £50 towards the cost of the new Engineering Building.

Danish Government

A grant of £75 per annum for 1961–62 and 1962–63 being a contribution towards providing the allowance payable to a Visiting Professor of Scandinavian Studies.

Department of Scientific and Industrial Research

(1) An additional grant of £218 for four years from 1 January 1959 for the Department of Psychology for further development of a training method for skilled operatives in industry with special reference to older workers.

(2) An additional grant of £250 for three years from 1 April 1960 and a further grant not exceeding £16,010 for three years from 1 October 1962 for a space research programme in the Department of Physics.

(3) A grant of £1,017 for one year from 1 August 1962 for research in the Department of Photogrammetry and Surveying on the development of photogrammetric procedures as applied to the accuracy of building and components.

(4) An additional grant of £2,327 for two years and 1 month from 1 September 1962 for theoretical studies of atomic collisions in the Department of Physics.

(5) A grant of £5,000 for one year from 1 October 1962 for research in the Department of Chemistry on the chemistry of enzymes in relation to mechanism of catalysis.

(6) A grant of £2,811 for one year from 1 October 1962 for research in the Department of Chemistry on high-pressure X-ray and neutron diffraction.

(7) A grant of £1,725 for one year from 1 October 1962 for investigation in the Department of Physics of the absorption spectrum of building materials.

(8) A grant of £1,581 for one year from 1 October 1962 for research in the Department of Physics on the transport qualities of atomic gases.

(9) A grant of £1,880 for one year from 1 November 1962 for research in the Department of Civil and Municipal Engineering on the effect of waves on beaches.

(10) A grant not exceeding £30,000 for two years from 1 January 1963 for an investigation by the Department of Physics involving measuring and data reduction concerned with bubble chamber photographs.

(11) A grant of £6,810 for three years from 1 January 1963 for construction by the Department of Anatomy and Embryology of an adaptive function generator.

(12) A grant of £1,688 for seven months from 1 January 1963 for studies in the Department of Psychology in the training of adult workers.

(13) A grant of £1,061 for one year from 1 January 1963 for research in the Department of Mechanical Engineering on the whirling of shafts.

(14) A grant of £4,131 for one year and nine months from 1 April 1963 for research in the Department of Chemistry on the applications of mass spectrometry to chemistry.

(15) A grant of £8,593 for three years from 1 June 1963 for spectropolarimetric investigation in the Department of Biochemistry of the mechanism of enzyme action.

(16) A grant of £2,200 for seven months from 1 August 1963 for an investigation in the Department of Zoology of the mammals and mammal-like reptiles from the Upper Triassic deposits of Basutoland and South Africa.

(17) A grant not exceeding £4,000 for two years from 1 September 1963 for the Department of English for the Survey in English Usage computer project.

(18) A grant not exceeding £28,549 for three years from 1 October 1963 for the purchase by the Department of Geology of a Cameca electron micro-analyser and scanning equipment, and the salary of a research assistant for research on electron probe analysis of micro-volumes of various substances.

Diamond Corporation

A grant of £250 for one year from 1 October 1962 for research on diamonds in the Department of Chemistry.

E. I. Du Pont De Nemours and Company Incorporated

A grant of $6,000 per annum for fundamental research in the Department of Chemistry in the field of Tungsten and Molybdenum Chemistry.

Egypt Exploration Society

A gift of iron tools and implements, beads and a representative series of pots from the X-Group cemeteries of Qasr Ibrim for the Edwards Collection in the Museum of the Department of Egyptology.

Empire Rheumatism Council

An additional grant of £75 for nine months from 1 April 1962 and a further grant of £1,200 for one year from 1 January 1963 for research in the Department of Physiology on properties of connective tissues.

Esso Petroleum Company Limited

(1) A grant of £180 for research in the Department of Geology in micropalaeontology.

(2) Additional grants of £150 per annum for each Esso Postgraduate Studentship awarded in the Department of Chemical Engineering.

Fleming Memorial Fund for Medical Research

A grant of £16,000 payable over four years to the College and University College Hospital Medical School for research in human genetics; to provide for an appointment at the level of Senior Lecturer (Clinical) tenable jointly at the College in the Galton Laboratory and at the Medical School.

Ford Foundation

A grant of $28,000 for one year from 1 September 1962 for the Department of English for the development of research and training in the use of English as a second language.

Foster Instrument Company

A donation of £3 3*s.* 0*d.* towards the cost of the new Engineering Building.

H. Frost and Company Limited

A donation of £2 2*s.* 0*d.* towards the cost of the new Engineering Building.

James Gibbons Limited

A donation of £10 10*s.* 0*d.* towards the cost of the new Engineering Building.

J. H. G. Grattan

Bequest of a pecuniary legacy of £300 for the benefit of the Faculty of Arts to be used in whatever manner the Provost in his absolute discretion may think proper.

Lt. Col. Cedric Hall

A gift of £500 for the Department of French to provide a book prize to be known as the 'Violet Hall Prize '.

H. J. Heinz Company Limited

A donation of £200 towards the cost of the new Engineering Building.

Home Office

An additional grant of £50 for one year from 1 April 1962 for research in the Department of Psychology on recidivism of young offenders.

Horseley Bridge and Thomas Piggott Limited

A donation of £10 towards the cost of the new Engineering Building.

Imperial Chemical Industries Limited

(1) A donation of £20,000 towards the cost of the new Chemistry Building.

(2) A grant of £98 10*s.* 0*d.* for the purchase by the Department of Chemical Engineering of a test sieve shaker to be held on indefinite loan.

H. L. Jackson

A residuary bequest of approximately £6,000 to be invested and the income to be used to found a scholarship or prize to be known as the 'Jackson Lewis Scholarship or Prize'.

Margaretta Kirby

A bequest of the residuary estate, amounting to approximately £6,000, for the creation of a trust to be called 'The Margaretta Kirby Foundation', the income to be used for furtherance of studies or research in Egyptology in such manner as the College Committee may decide.

Kodak Limited

A donation of £200 towards the cost of the new Engineering Building.

Leverhulme Trust Fund

(1) A grant of £600 per annum for 1962–63 and 1964–65 for a Studentship in Film in the Slade School of Fine Art.

(2) A grant not exceeding £3,000 per annum for five years from January 1963 for research in the Bartlett School of Architecture into the education of architects.

(3) A grant of £250 for travel grants for the Slade School of Fine Art.

(4) Additional grants of £150 per annum for each Leverhulme Postgraduate Studentship awarded in the Department of Chemical Engineering.

Longman's Green and Company Limited

A grant of £2,000 per annum for seven years in the first instance for the foundation of a Longman's Research Fellowship in the English Language, to be held by African graduates.

May and Baker Limited

A grant of £200 for one year from 16 November 1962 for laboratory expenses in the Department of Pharmacology.

Medical Research Council

(1) An additional grant of £250 for one year from 1 October 1961 for the Department of Physiology for scientific assistance and special apparatus for work on the action of phospholipases in nerve and muscle resting and action potentials and on neuromuscular transmission.

(2) An additional grant of £50 for one year from 1 October 1961 and grants of £1,025 and £17 for one year from 1 October 1962, and £1,075 for nine months from 1 January 1963, for research in the Department of Psychology on Inductive and Deductive Thinking.

(3) A grant not exceeding £1,800 for one year from 1 March 1962 for the Department of Psychology, for scientific assistance for a psychological study of the children of school age in the Tristan da Cunha settlement.

(4) A grant of £300 for one year from 1 April 1962 for research in the Department of Physiology on the mechanical, neural and endocrine factors controlling the eruption of teeth.

(5) An additional grant of £75 for nine months from 1 April 1962 and a further grant of £1,000 for one year from 1 January 1963 for study in the Department of Eugenics, Biometry and Genetics of chromosomal translocations.

(6) A grant of £1,000 for one year from 1 July 1962 and a further grant of £1,050 for one year from 1 July 1963 for the Department of Anatomy and Embryology, for scientific assistance in a study of synaptic structure in the autonomic nervous system.

(7) An additional grant of £100 for one year from 2 July 1962 and a further grant of £1,500 for one year from 1 July 1963 for study in the Department of Physiology of the mechanism of formation and drainage of the cerebrospinal fluid.

(8) An additional grant of £23 for one year from 1 August 1962 and a further grant not exceeding £580 for the same period, for technical assistance in the Department of Physiology for work on central control of muscle spindles.

(9) A grant of £1,350 for one year from 1 October 1962 for study in the Department of Pharmacology of delayed allergic reactions with special reference to the role of cell-bound antibodies in autosensitization.

(10) A grant of £1,200 for one year from 1 October 1962 for research in the Department of Physiology on the action of phospholipases on nerve and muscle resting and action potentials and on neuromuscular transmission.

(11) A grant of £1,100 for one year from 1 October 1962 for study in the Department of Biochemistry of the mechanism of action of dehydrogenase.

(12) A grant not exceeding £1,030 for one year from 1 October 1962 for study in the Student Health Centre of the prevalence of mental ill-health in a population of University students.

(13) A grant of £700 for one year from 1 October 1962 for the Department of Biochemistry for scientific assistance in an investigation of the structure and mode of synthesis of cell walls of pseudomonas spp.

(14) A grant of £200 for one year from 18 October 1962 for the Department of Biochemistry, for expenses of a study of potentially antileprotic diphenyl thioureas in laboratory animals and in man, and the effects of these substances on the metabolism of certain non-pathogenic mycobacteria and on *M. leprae.*

(15) Grants of £800 and £250 for one year from 15 November 1962 and an additional grant of £250 for one year from 15 December 1962 for the Department of Physiology, for wholetime scientific assistance in an investigation to determine the possibly physiological or pathological significance of kinins (kallidin and bradykinin) and of the enzymes which release them.

(16) A grant of £1,450 for one year from 1 December 1962 for study in the Department of Biochemistry of amino-acid metabolism in the perfused rat liver.

(17) Grants of £1,800 for one year from 1 January 1963 and £750 for one year from 1 January 1964 for investigation in the Department of Chemistry of molecular size and shape of muscle proteins in dilute solution.

(18) A grant of £1,160 for one year from 1 January 1963 for studies in the Department of Physiology of the properties of isolated muscle during contraction and relaxation.

(19) A grant of £1,800 for one year from 31 January 1963 for the Department of Psychology for psychological study of children of school age in the Tristan da Cunha settlement.

(20) A grant of £275 for one year from 7 February 1963 for study in the Department of Anthropology of the human karyotype in various populations.

(21) A grant of £1,840 for the Department of Physiology for equipment, and a grant not exceeding £600 per annum for study of the long-term effect of polarizing currents on the rat cerebral cortex.

(22) A grant not exceeding £1,382 per annum for X-ray studies in the Department of Chemistry of endemic bladder stones, and a further grant not exceeding £1,200 for equipment in connection with these studies.

(23) The indefinite loan to the Department of Biochemistry of an amino-acid analyser for use in research programmes.

Ministry of Aviation

(1) A grant of £955 for one year from 1 October 1961 for research in the Department of Phonetics on sound coded speech.

(2) An additional grant of £55 for one year from 1 October 1961 for the measurement of electron attachment co-efficients in low pressure gases in the Department of Physics.

(3) A grant of £1,820 for one year from 1 May 1962 and a further grant not exceeding £750 for five months from 1 May 1963 for research in the Department of Physics on quantum electronics.

(4) A grant not exceeding £3,651 for one year from 1 October 1962 for the experimental comparison in the Department of Chemistry of bond strengths of various inorganic links of interest in the high temperature polymer field.

(5) A grant not exceeding £1,352 for one year from 1 October 1962 for investigation in the Department of Mechanical Engineering of some aspects of the behaviour of flame traps.

(6) A grant not exceeding £150 for three months from 1 October 1962 for research in the Department of Electrical Engineering into the dielectric properties of polycrystalline photo-conductive film in micro-wave fields.

(7) A grant not exceeding £1,655 for one year from 1 December 1962 for research in the Department of Electrical Engineering on the measurement at centimeter wavelengths of surface currents on conducting objects in an incident plane electromagnetic field.

(8) A grant of £1,725 for one year from 13 February 1963 for research in the Department of Electrical Engineering on the application of Hall effect to the measure of high power density electromagnetic waves in free space.

Mobil Oil

A donation of £500 towards the cost of the new Engineering Building.

John Mowlem and Company Limited

A donation of £100 towards the cost of the new Engineering Building.

The Muscular Dystrophy Group

An additional grant of £620 for research in muscular dystrophy in the Department of Eugenics, Biometry and Genetics.

National Institutes of Health, U.S.A.

(1) An additional grant of $1,133 for one year from 1 April 1962 and a further grant of $20,763 for one year from 1 April 1963 for research in the Department of Pharmacology on psychotropic drugs and autonomic dysfunction.

(2) An additional grant of $708 for one year from 1 May 1962 for research in the Department of Anatomy and Embryology on control of cell locomotion in relation to malignancy.

(3) A grant of $500 for one year from 1 July 1962 for research in the Department of Chemistry on energy transfer studies and co-ordination chemistry.

(4) A grant of $500 for one year from 1 October 1962 for research in the Department of Physiology on neurophysiology.

(5) A grant of $500 for one year from 1 October 1962 for research in the Department of Zoology into the cell surface as an effector of cell specificity.

(6) A grant of $26,322 for one year from 1 January 1963 for research in the Department of Psychology on the psychopharmacology of learning, perception and skill.

(7) A grant of $13,781 for one year from 1 June 1963 for investigation in the Department of Phonetics on the effect of drugs on speech production.

National Multiple Sclerosis Society, U.S.A.

(1) A grant of $1,000 for one year from 1 September 1961 for a supplemental payment on a research fellowship grant in the Department of Biophysics.

(2) A grant of $11,720 for one year from 1 January 1963 for the Department of Physiology for histological and micropharmacological study of Mauthner neurones.

National Institute for Research in Nuclear Science

(1) An additional grant of £22,745 for the Physics Department for four years nine months from 1 January 1961 for experimental research in the development of spark chambers.

(2) An additional grant not exceeding £5,000 for three years from 1 April 1961 for purchase by the Department of Physics of capital items for incorporation in a heavy liquid bubble chamber.

(3) An additional grant of £24,500 for four years from 1 October 1961 for the Department of Physics for investigation of track chamber photograph analysis methods.

(4) A grant not exceeding £18,000 and an additional grant of £700 for one year from 1 October 1962 for the Department of Physics for construction of a heavy liquid bubble chamber.

(5) A grant not exceeding £12,500 and an additional grant of £12,000 for two years from 1 October 1962 for the Department of Physics for the construction of digitised microscopes for the measurement of spark chamber photographs.

(6) A grant not exceeding £800 for three years from 1 October 1962 for the Department of Physics for theoretical studies of elementary particles.

National Science Foundation, U.S.A.

(1) A grant of $200 for one year from 1 October 1961 for a special allowance in connection with a N.A.T.O. postdoctoral fellowship for a member of staff of the Department of Zoology.

(2) A grant of $200 for one year from 1 October 1962 for a special allowance in connection with a N.A.T.O. postdoctoral fellowship for a member of staff of the Department of Biophysics.

(3) A grant of $200 for N.A.T.O. postdoctoral fellowship expenses for a member of staff of the Department of Physics.

Nature Conservancy

An additional grant of £22 for one year from 1 May 1962 for the Department of Photogrammetry and Surveying for development of photogrammetric techniques and apparatus for low-level and sub-aerial photography of research sites in Snowdonia.

North Atlantic Treaty Organisation

(1) A grant of $1,500 for approximately one year from 1 October 1962 for geological studies in Norway by the Department of Geology.

(2) An unrestricted grant of £299 17*s.* 0*d.* to the Department of Chemistry.

Norwegian Government

A grant of £75 for 1962–63 for the Department of Scandinavian Studies, being a contribution towards providing the allowance payable to a Visiting Professor of Scandinavian Studies.

Nuffield Foundation

(1) An additional grant of £122 16*s.* 9*d.* for one year from 1 August 1961 for the maintenance by the Department of Botany of the Nuffield Botanic Research Garden.

(2) An additional grant of £146 13*s.* 4*d.* for sixteen months from 1 April 1962 for research in the Department of Zoology on ageing.

(3) A grant of £9,665 for approximately two years from 1 October 1962 for research in the Department of Anatomy and Embryology on the isolation of neurons from the mammalian brain.

(4) A grant of £6,600 for three years for research in the Department of Statistics on University selection and performance.

(5) A grant of £700 per annum for five years for research in the Department of Anatomy and Embryology on analytical problems of biological control systems.

(6) A grant of £250 for the Department of Biochemistry to meet the costs of isotopically labelled compounds.

Office of Aerospace Research, United States Air Force

A grant of $28,500 for one year from 1 January 1963 for the Department of Physics for research on determinations of air density, temperature and winds at high altitude.

Parke Davis and Company Limited

A grant of £200 for one year from 1 October 1962 for research in the Department of Physiology on inflammation peptides and related topics.

Pfizer Limited

A grant of £600 for one year from 1 October 1962 for research in the Department of Chemical Engineering covering multi-stage continuous fermentation on a mixed substrate.

Sir Arthur Porritt

A gift to the Slade School of Fine Art of three sketches by Tonks.

Racal Electronics Limited

A donation of £25 towards the cost of the new Engineering Building.

Rockefeller Foundation

A grant of $14,000 for two years from 1 July 1963 for research in the Department of Eugenics, Biometry and Genetics on mammalian genetics.

Royal Society

(1) Two grants of £475 each for six months from 1 October 1962 for research in the Department of Physics on the excitation of atmospheric gases by high speed protons.

(2) A grant of £200 for one year from 1 April 1962, further grants amounting to £2,050 for one year from 1 October 1962, and a grant of £2,250 for one year from 1 October 1963 for a Locke Research Fellowship award to a member of staff of the Department of Anatomy and Embryology.

Sir Harold Samuel

A gift of £150,000, under covenant over ten years, for the purchase of land and properties at Kentish Town as a site for a hall of residence.

Shell International Petroleum Company Limited

A grant of £750 per annum for three years from 10 June 1963 for a research studentship in the Department of Statistics.

Shell Research Limited

A grant of £500 for general purposes in the Department of Chemistry.

Smith Kline and French Research Institute

A grant of £500 for general research purposes in the Department of Pharmacology.

Swedish Government

A grant of £75 per annum for 1961–62 and 1962–63 for the Department of Scandinavian Studies being a contribution towards providing the allowance payable to a visiting Professor of Scandinavian Studies.

The United Birmingham Hospitals

A grant of £4,500 for the Bartlett School of Architecture for special study in hospital development.

United Kingdom Atomic Energy Authority

An additional grant of £13,300 for eight years from 1 September 1958 for research in the Department of Physics on atomic collision cross sections.

United States Air Force

(1) A grant of $20,750 for one year from 1 June 1962 and a further grant of $20,750 for one year from 1 June 1963 for research in the Department of Anatomy and Embryology on anatomical localisation of target learning and memory.

(2) A grant of $20,000 for two years from 1 October 1962 for research in the Department of Physics on dispersion relations in high energy physics.

(3) A grant of $5,000 for ten months from 1 August 1963 for research in the Department of Phonetics on speech analyser systems.

(4) A grant of $33,500 for three years from 1 September 1963 for research in the Department of Chemistry on the optical properties of organic crystals.

United States Army

Grants of £2,970 and £84 10*s.* 0*d.* for one year from 1 December 1962 for research in the Department of Chemistry on radial distribution curve of electron density.

United States Navy

(1) A grant of $51,822 for three years from 1 October 1962 for research in the Department of Chemistry on the synthesis and structure of new types of metal-organic complexes.

(2) A grant of $13,912 for one year from 23 December 1962 for research in the Department of Physics on atomic processes.

University College Hospital

A grant of £500 for six months from 1 June 1963 for research in the Department of Mechanical Engineering on the development of apparatus for perfusion.

Professor H. E. Watson

A gift of £100 for the purchase of windbreak trees for Shenley Athletic Ground.

The Wellcome Trust

(1) A grant of £1,200 per annum for four months from 1 August 1962 for a research fellowship in the Department of Anatomy and Embryology.

(2) A grant of £1,000 for one year from 1 January 1963 for a Wellcome Research Travelling Fellowship for a member of staff of the Department of Physiology to enable him to carry on research on anaphylaxis.

(3) A grant of £13,500 for the purchase by the Department of Anatomy and Embryology of an electron microscope to be held on indefinite loan.

Winston Electronics Limited

A donation of £21 towards the cost of the new Engineering Building.

World Health Organisation

A grant of $2,500 for one year from 1 January 1963 for research in the Department of Anthropology on chromosomal studies in human populations.

John Wyeth and Brother Limited

(1) A grant of £450 for one year from 1 October 1962 for a studentship in the Department of Pharmacology.

(2) A grant of £60 for a travel grant to enable a member of staff of the Department of Pharmacology to attend an international meeting in Prague.

BENEFACTIONS AND DONATIONS TO THE LIBRARY

At the beginning of the session two large and interesting collections of Jewish material were transferred from other institutions to the Mocatta Library. First, the Jewish Museum generously transferred their de Sola Collection which had originally been presented to them by Bram Charles de Sola and Mrs Elizabeth Louise Mosley, together with other volumes from the Museum Library. Secondly, the Montefiore Foundation deposited on permanent loan the residue of the late Sir Moses Montefiore Collection and the Montefiore Museum previously housed at Montefiore College, Ramsgate.

Friends and associates of the College again have made various interesting gifts to the Library during the session. Sir Vahé Bairamian, Fellow of the College, made a generous gift of £100 to be spent on modern English editions of Greek texts in memory of John Arthur Platt, Professor of Greek from 1894 to 1924. In addition, Sir Vahé presented various older classical texts, including Bentley's Horace and Scaliger's Catullus. A collection of standard editions of classical authors was also given by Mr S. Barrowclough.

King's College London shared with this College Library a bequest of books from the library of the late Mr Harold C. King, which included an extensive set of Alcuin Club publications, many of them now very difficult to obtain.

Another bequest from which the College will greatly benefit is that from Miss Ingibjörg Ólafsson, who was for a long time connected with the Viking Society for Northern Research, of all her books on Iceland or in Icelandic. The Scandinavian section of the Library also received valuable additions as gifts from Colonel B. E. Coke and Dr Edith Batho.

Professor R. Forbes of the Hollandsche Maatschappij der Wetenschappen presented fourteen volumes of the *Oeuvres completes* of Huygens, thus filling a serious gap. Among books presented by Miss M. Eyre were four illustrated by Gustave Doré.

The manuscript holdings of the Library have been interestingly augmented by the generosity of donors during the session. Professor P. G. Foote has given a valuable collection of over 200 late nineteenth century literary letters, including some from Austin Dobson, Richard Garnett, Sir Edmund Goose, H. Rider Haggard, James Hannay, Violet Hunt, Rudyard Kipling, Andrew Lang, George Saintsbury, and R. L. Stevenson. The Mocatta Library has been glad to accept the gift, presented by Mr R. J. Loewe, of a large number of papers, both manuscript and printed, by or about the scholar, A. S. Schiller-Szinessy.

The George Orwell Archive has continued to grow throughout the session, principally through the generosity and help of friends of George Orwell. The following recipients of letters from Orwell have either generously given them to the Archive or have allowed copies of them to be made:—Mr John Beavan, Mr T. R. Fyvel, Mrs Celia Goodman, Mr Geoffrey Gorer, Mr A. S. F. Gow, Mr Rayner Heppenstall, Mr Maurice Hussey, Mr Frank Jellinek, Mr Henry Miller, Mr Anthony Powell, Miss Kathleen Raine, Sir Herbert Read, Miss Brenda Salkeld, and Mr Julian Symons. The Archive was very pleased to receive as a gift from the Editor of *The Observer* the ninety-two issues of this newspaper to which Orwell contributed. Mr Tom Hopkinson generously gave a most welcome gift, an unpublished script by Orwell, as also did Miss Sonia Brownell, who has in addition given the Archive forty-five translations of works by Orwell.

APPENDIX XIII

COLLEGE ACCOUNTS 1962–63

The Balance Sheet and the Income and Expenditure Account for the year will be found on pages 96–9.

BALANCE SHEET

Features of special interest were:

LIABILITIES

The Capital Account increased by £133,929, which included £83,100, the value of new accommodation completed and sites acquired in the year, and also £46,200 donated by Sir Harold Samuel, who also lent the College £126,400 (under 'Loans') to finance the purchase of properties at Kentish Town for development as halls of residence for students.

ASSETS

Freehold Land and Buildings increased by £391,269, which included £303,779 for the properties at Kentish Town already mentioned, and £34,700 for residential development for students on sites in Whitfield Street.

TRUST FUNDS

The College holds endowments in the form of 181 separate trust funds with a total value of £1,070,558. Two new trusts were set up during the year. The funds yield a total income of £52,000 per annum.

INCOME AND EXPENDITURE

The Income and Expenditure account showed a surplus of £684, as compared with a surplus of £2,082 for the previous year.

Income exceeded that of 1961–62 by £336,339, of which £305,351 represented increased grants from the Court including £110,000 for general purposes, and £194,000 as earmarked grants for revision of salaries, rating of buildings, research, and other activities. Fees increased by £34,789 due to a general increase in tuition and other fees in the first year of the new quinquennium.

Expenditure was £337,736 more than in 1961–62. Of this sum £241,686 was spent upon academic activities, which included a number of new appointments to the academic staff and to the establishment of technicians, and £44,000 for research activities taken over from Research Councils. Maintenance of Premises required an additional £49,941.

The percentage of income and expenditure under the main classifications in 1962–63, as compared with the first and last years of the previous quinquennium, are shown in the following table:

EXPENDITURE	1956–7 %	1961–2 %	1962–3 %
Salaries and Pensions of Teaching Staff	47·8	48·6	48·9
Departmental Expenses, incl. Library ..	26·3	23·4	24·4
Maintenance of Premises ..	13·4	16·4	16·3
Administration ..	7·3	7·6	7·4
Other	5·2	4·0	3·0
	100·0	100·0	100·0

INCOME	1956–7 %	1961–2 %	1962–3 %
Endowments ..	3·7	2·6	2·1
Grants	84·1	86·2	86·9
Donations ..	·4	1·1	·8
Fees	10·6	9·0	9·1
Other	1·2	1·1	1·1
	100·0	100·0	100·0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. Receipts of research grants were £425,047 as compared with £428,947 in 1961–62, but payments rose from £408,224 to £480,703 in the respective years, the increase of £72,479 being met by advances made by the College out of its own resources pending recovery from grant-giving bodies.

CAPITAL GRANTS

Capital Grants made during the year 1962–63 were as follows:	£
Adaptations in Foster Court to provide additional accommodation for Geology and Geography Departments	4,349
Adaptations to Departments of Anatomy, Biochemistry, Pharmacology, and Physiology to accommodate increased medical student intake:	
Building work	445
Purchase of equipment and furniture	3,522
Adaptations in Slade School to provide additional studio space:	
Building work	2,803
Professional fees	60
Adaptations to Medical Sciences Building to provide aquarium and stores:	
Building work	1,826
Purchase of equipment	1,279
Alterations in old Engineering Building	875
Alterations in Bartlett School of Architecture:	
Building work	7,108
Purchase of furniture	5,076
Biological Sciences Block, Stages III and IV: Purchase of equipment for Department of Botany	1,217
Biological Sciences Block, Stage IV:	
General increases in cost:	432
Additional professional fees	54

	£
Biological Sciences Block, Stage V:	
Additional building work and general increases in cost	4,817
Additional professional fees	577
Purchase of equipment for Departments of Botany, Biophysics, and Lecture Theatre	154,437
Purchase of furniture	50,785
Professional fees in connection with furniture	1,548
Construction of lavatory block and sewage disposal installation at Sports Ground:	
Professional fees	1,197
Additional building work	208
Conversion of former Mechanical Engineering Laboratory as Hydraulics Laboratory	4,072
Demolition of Huts, widening vehicle entrance, cable ducts, and strengthening roof of telephone exchange:	
Building work	4,410
Professional fees	60
Engineering Building, Stages I and II: Purchase of furniture for Departments of Civil and Municipal Engineering and Photogrammetry and Surveying	13,705
Engineering Building, Stage III:	
Building work and general increases in cost	345,066
Professional fees	43,176
Purchase of equipment and furniture	33,112
Extension to Bentham Hall of Residence to provide luggage store and games room:	
Building work	4,284
Professional fees	140
Extension to Animal House: Purchase of equipment..	2,881
Hall of Residence in Fitzroy Street:	
Professional fees	31,250
Purchase of heavy kitchen equipment	4,517
Hut for Chemistry Department	1,958
Installation of lift in Foster Court:	
Building work	11,858
Professional fees	412
New Telephone Installation: Additional building work	4,831
Provision of additional accommodation for Crystallography:	
Building work	1,877
Professional fees	120
Purchase of equipment and furniture	1,264
Provision of new office and laboratory in Department of Pharmacology:	
Building work:	2,229
Purchase of furniture	1,363
Provision of additional accommodation for Civil Engineering ..	2,495
Provision of research laboratory for Department of Zoology ..	843
Purchase of 127 and 129 Whitfield Street and 47 Grafton Way W1 ..	30,000
Purchase of 2 Euston Buildings and 10 Regnart Buildings NW1:	
Professional and legal charges	207
	£788,745

SCHOLARSHIPS AND PRIZES

Expenditure amounted to £16,734 2*s.* 8*d.* Awards were made as under:

	Undergraduate			*Postgraduate*		
	£	*s.*	*d.*	£	*s.*	*d.*
From Endowments	2,137	1	11	2,409	10	7
„ Donations and Subscriptions	1,286	10	11	7,214	12	4
„ General Income	649	4	8	2,137	1	3
„ General Income: Exhibition Bursaries and special fee remissions	155	1	0	745	0	0
	£4,227	18	6	£12,506	4	2

UNIVERSITY COLLEGE
BALANCE SHEET

31-7-62 £		£
8,344,052	CAPITAL ACCOUNT	8,477,982
54,269	REDEMPTION FUNDS	58,650
13,243	INCOME AND EXPENDITURE ACCOUNT	13,928
8,411,564		8,550,560
584,170	SUNDRY FUNDS	569,024
40,408	LOANS	165,563
375,847	UNEXPENDED BALANCES	383,930
188,432	CURRENT LIABILITIES	287,070
9,600,421		9,956,147
1,056,332	TRUST FUNDS	1,122,119
£10,656,753		£11,078,266

NOTE

The College freehold properties were revalued during 1959 on the basis of current land values and estimated building costs, by the College authorities with professional assistance from Quantity Surveyors. Accordingly these properties are stated at the 1959 valuation with subsequent additions at estimated cost. No value is included in capital account for furniture and equipment.

We have audited the above balance sheet and the annexed income and expenditure notes thereon, a true and fair view of the state of affairs of University College on that date: (*b*) moneys expended during the year out of non-recurrent grants for specific purposes have been properly applied to those purposes.

3 Frederick's Place, Old Jewry, London, E.C.2.
26th November 1963.

31-7-62 £		£	£
8,298,451	FREEHOLD LAND AND BUILDINGS—see note below ..		8,689,720
	LEASEHOLD LAND AND BUILDINGS, at cost	195,650	
	Less: 11 Chester Terrace	7,847	
		187,803	
	Add: 4-10 Euston Buildings and 8-9 Regnart Buildings —Stamp duty, etc.	1,902	
		189,705	
146,786	*Less:* Amortization to date	47,137	
			142,568
8,445,237			8,832,288
27,855	CAPITAL AND OTHER WORKS IN PROGRESS *less* capital grants and other capital receipts		21,390
573,439	INVESTMENTS.. .. .. (*Market Value of Stock Exchange Securities and other Investments at 31st July, 1963, £632,797: 31st July, 1962, £586,178.*)		592,854
181,272	EXPENDITURE RECOVERABLE FROM FUTURE GRANTS ..		210,338
58,532	CAPITAL WORKS—Expenditure in respect of Suspended Works		57,782
314,086	CURRENT ASSETS including prepayments		241,495
9,600,421			9,956,147
1,056,332	TRUST FUNDS		1,122,119
£10,656,753			£11,078,266

account. In our opinion (*a*) the said accounts give, on the basis indicated in the London at 31st July 1963, and of the income and expenditure for the year ended received from the University Court and other funds administered by the College

PRICE WATERHOUSE & CO.
Chartered Accountants.

EXPENDITURE

1961–62 £			£	£
	ADMINISTRATION			
108,863	Salaries		123,404	
6,620	Superannuation		8,475	
37,689	Advertising, Printing, Stationery, Postage, and Telephone		38,719	
6,039	Other Expenses (including Professional Fees)		8,754	
(159,211)				179,352
	ACADEMIC DEPARTMENTS			
930,936	Salaries of Teaching Staff		1,066,568	
84,336	Superannuation		95,718	
255,411	Departmental Wages (including Superannuation)		302,605	
152,577	Departmental and Laboratory Maintenance		191,474	
77,376	Libraries		93,584	
4,045	Other Expenses		6,418	
1,504,681)				1,756,367
	MAINTENANCE OF PREMISES			
54,605	Rates		71,606	
3,883	Insurance		4,567	
	Rent and other payments for use of buildings:			
7,766	Halls of Residence	7,766		
1,718	Other Buildings	2,522		
			10,288	
73,196	Heat, Light, Water and Power		80,222	
160,613	Repairs and Maintenance of Buildings including amounts set aside for long-term maintenance		183,602	
37,944	Wages of Porters and Attendants (including Superannuation)		40,291	
4,188	Other Expenses		4,779	
(343,913)				395,355
	GENERAL EDUCATIONAL			
147	Examinations		1,815	
19,591	Scholarships and Prizes		16,734	
983	Public Lectures		948	
2,000	Staff Attendance at Conferences		2,000	
441	Other Items		356	
(23,162)				21,853
	STUDENT FACILITIES AND AMENITIES			
25,500	Grant to Students' Union		27,000	
2,081	Salaries and Superannuation of Wardens of Halls of Residence		2,605	
1,500	Student Health Service		4,436	
2,432	Students' Purposes Fund		2,695	
239	Crabb Robinson Fund		250	
328	Ealing Hall Fund		430	
—	Central Admissions Scheme		3,118	
—	Furniture for Student Houses		5,000	
(32,080)				45,534
	MISCELLANEOUS			
11,629	Staff Pensions		14,568	
834	Grants from Benevolent Fund		703	
350	Grant from Bawden Fund		450	
3,010	Interest on Overdrafts, etc.		1,388	
4,281	Sundries		5,588	
	Deficits on Income and Expenditure Account for Halls of Residence, Refectories, etc.			
	Refectory:			
1,050	College Subvention	1,050		
3,199	Trading Loss written off	1,829		
			2,879	
(24,353)				25,576
	CAPITAL EXPENDITURE MET FROM INCOME			
3,000	Gordon Street Frontage		3,100	
—	12, Euston Buildings		1,000	
				4,100
2,090,400				2,428,137
2,082	Excess of Income over Expenditure for the year			685
£2,092,482				£2,428,822
32	*Conservation Studies—Balance of grant reserved*			—
13,243	Balance 31st July, 1963 carried to Balance Sheet			13,928
£13,275				£13,928

INCOME

1961–62 £		£	£
	ENDOWMENTS		
55,047	Income appropriated for purposes specified by Trust.. ..		51,523
	DONATIONS AND SUBSCRIPTIONS: Appropriated for:		
199	Special Purposes	176	
9,699	Scholarships and Bursaries	7,272	
10,457	Salaries and Superannuation	11,773	
2,340	Departmental and Laboratory Maintenance	1,498	
(22,695)			20,719
	GRANTS FROM UNIVERSITY COURT		
1,652,904	General	1,900,000	
	Earmarked:—		
—	Academic salary increases 1963 Scheme	43,057	
13,788	,, ,, ,, 1962 ,, ...	45,301	
136,887	,, ,, ,, 1960 ,, ...	—	
—	Former Research Councils 55,900		
—	*Less:* Unexpended balance .. 11,549		
	44,351		
	Medical Education 8,115		
	Less: Unexpended balance 5,168		
	2,946		
	Rates	71,606	
—	Hayter Committee	1,669	
(1,803,579)			2,108,930
	FEES		
184,948	General	220,226	
977	Examination and Registration	792	
956	Exhibition Bursaries and Special Remissions..	653	
(186,881)			221,671
7,131	CONTRIBUTIONS FOR SERVICES RENDERED		9,132
	SURPLUS FROM INCOME AND EXPENDITURE ACCOUNTS FOR COLLEGE PROPERTIES, HALLS OF RESIDENCE, REFECTORIES, ETC.		
373	College Properties		1,169
16,776	OTHER ITEMS		15,678

NOTES

1. In addition to the Income and Expenditure shown, sums totalling £480,703 were spent on Extra-budgetary activities for which grants have been or will be received from outside sources.
2. Expenditure shown in this account has been increased by £15,042 representing a net increase in unexpended balances of general revenue grants from University Court.

£2,092,482		£2,428,822
11,193	Balance as at 1st August, 1962	13,243
2,082	Excess of Income over Expenditure for the year	685
£13,275		£13,928

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